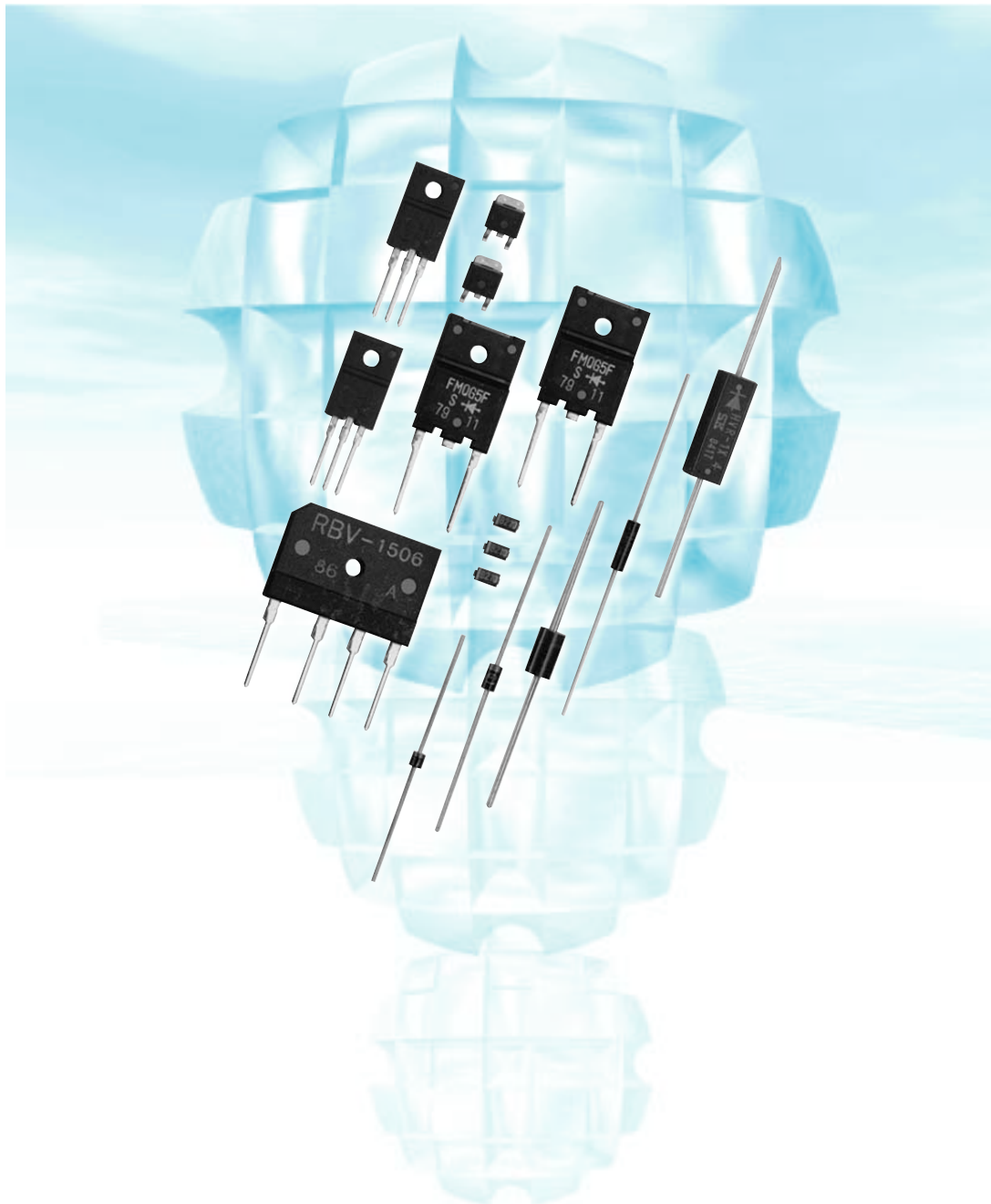


# SILICON DIODES

## SILICON VARISTORS



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# Selection Guide

## Rectifier Diodes

### ●1 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Part Number	Package	Page
100	1.0	45	EM 1Y	Axial (E1)	12
	3.0	200	RM 4Y	Axial (R4)	
200	0.9	30	SFPM-52	Surface Mount (SFP)	13
		45	SFPM-62		
	1.0	35	AM01Z	Axial (A0)	
		45	EM01Z	Axial (E0)	
		45	EM 1Z	Axial (E1)	
		50	RM 1Z	Axial (R1)	
	1.2	100	RM 2Z	Axial (R2)	
		80	RO 2Z		
	1.5	120	RM 10Z	Axial (R1)	
	3.0	200	RM 4Z	Axial (R4)	
400	0.9	30	SFPM-54	Surface Mount (SFP)	14
		45	SFPM-64		
	1.0	35	AM01	Axial (A0)	
		45	EM01	Axial (E0)	
		45	EM 1	Axial (E1)	
		50	RM 1	Axial (R1)	
	1.2	80	EM 2	Axial (E1)	
		150	RM 10	Axial (R1)	
		100	RM 2	Axial (R2)	
		80	RO 2		
	2.5	150	RM 3	Axial (R3)	
	3.0	200	RM 4	Axial (R4)	
600	1.0	35	AM01A	Axial (A0)	15
		45	EM01A	Axial (E0)	
		45	EM 1A	Axial (E1)	
		50	RM 1A	Axial (R1)	
	1.2	80	EM 2A	Axial (E1)	
		150	RM 10A	Axial (R1)	
		100	RM 11A		
		100	RM 2A	Axial (R2)	
	80	RO 2A			
	2.5	150	RM 3A	Axial (R3)	
3.0	200	RM 4A	Axial (R4)		
3.2	350	RM 4AM			
800	0.8	40	RM 1B	Axial (R1)	16
	1.0	35	EM 1B	Axial (E1)	
		80	EM 2B		
	1.2	150	RM 10B	Axial (R1)	
		100	RM 11B		
		100	RM 2B	Axial (R2)	
		80	RO 2B		
	2.5	150	RM 3B	Axial (R3)	
3.0	150	RM 4B	Axial (R4)		
1000	0.8	40	RM 1C	Axial (R1)	17
	1.0	35	EM 1C	Axial (E1)	
		100	RM 11C		
	1.2	100	RM 2C	Axial (R2)	
		80	RO 2C		
	2.0	150	RM 3C	Axial (R3)	
3.0	150	RM 4C	Axial (R4)		

### ●2 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Part Number	Package	Page
100	20	120	FMM-31S, R	FM80	12
200	10	100	FMM-22S, R	TO-220F	13
	20	120	FMM-32S, R	FM80	
400	10	100	FMM-24S, R	TO-220F	14
	20	120	FMM-34S, R	FM80	
600	10	100	FMM-26S, R	TO-220F	15
	20	120	FMM-36S, R	FM80	

### ●Bridge

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	Part Number	Package	Page	
100	4.0	80	RBV-401	RBV-40	12	
	6.0	100	RBV-601	RBV-60		
200	4.0	80	RBV-402	RBV-40	13	
	6.0	120	RBV-602	RBV-60		
400	10	80	RBV-4102	RBV-40	14	
	4.0	80	RBV-404	RBV-60		
600	6.0	150	RBV-604	RBV-40	15	
	4.0	80	RBV-406	RBV-40		
	4.0	120	RBV-406H			
	4.0	120	RBV-406M			
	6.0	150	RBV-606	RBV-60		
	6.0	140	RBV-606H			
	13	80	RBV-1306			
	15	200	RBV-1506			
	800	15	150	RBV-1506S		RBV-60
		25	350	RBV-2506		
4.0		100	RBV-408	RBV-40		
1000	6.0	170	RBV-608	RBV-60	16	
	4.0	100	RBV-40C	RBV-40		17

# Selection Guide

## Fast-Recovery Rectifier Diodes

trr ①: I<sub>R</sub> = I<sub>F</sub> 90% Recovery Point  
trr ②: I<sub>R</sub> = 2 • I<sub>F</sub> 75% Recovery Point

### ●1 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	trr ① (μs)	trr ② (μs)	Part Number	Package	Page
100	1.2	25	0.2	0.08	EU 2YX	Axial (E1)	18
	1.5	30	0.2	0.08	RU 2YX	Axial (R1)	
	2.0	50	0.2	0.08	RU 3YX	Axial (R2)	
	3.5	100	0.4	0.18	RU 30Y	Axial (R3)	
		70	0.4	0.18	RU 4Y	Axial (R4)	
	4.0	100	0.2	0.08	RU 4YX		
	10.0	100	0.2	0.08	FMU-G2YXS	TO-220F-2Pin	
200	0.25	15	0.4	0.18	EU01Z	Axial (E0)	19
		15	0.4	0.18	EU 1Z	Axial (E1)	
	0.5	15	0.4	0.18	AU01Z	Axial (A0)	
		20	1.5	0.6	AS01Z		
		30	4.0	1.3	EH 1Z		
	0.6	15	0.4	0.18	RF 1Z	Axial (R1)	
		35	4.0	1.3	RH 1Z		
		30	1.5	0.6	ES 1Z		
	0.7	30	1.5	0.6	ES01Z	Axial (E0)	
		30	1.5	0.6	ES01Z	Axial (E0)	
	0.8	25	0.4	0.18	AU02Z	Axial (A0)	
		15	0.4	0.18	EU02Z	Axial (E0)	
	1.0	15	0.4	0.18	EU 2Z	Axial (E1)	
		20	0.4	0.18	RU 2Z	Axial (R1)	
		80	0.4	0.18	RU 30Z	Axial (R3)	
	3.5	70	0.4	0.18	RU 4Z	Axial (R4)	
		15	0.4	0.18	EU01	Axial (E0)	
0.25	15	0.4	0.18	EU 1	Axial (E1)		
	15	0.4	0.18	RU 1	Axial (R1)		
	15	0.4	0.18	AU01	Axial (A0)		
0.5	20	1.5	0.6	AS01			
	30	4.0	1.3	EH 1		Axial (E1)	
	15	0.4	0.18	RF 1	Axial (R1)		
0.6	35	4.0	1.3	RH 1			
	30	1.5	0.6	ES01		Axial (E0)	
0.7	30	1.5	0.6	ES 1	Axial (E1)		
	30	1.5	0.6	ES 1	Axial (E1)		
0.8	25	0.4	0.18	AU02	Axial (A0)		
	15	0.4	0.18	EU02	Axial (E0)		
1.0	15	0.4	0.18	EU 2	Axial (E1)		
	20	0.4	0.18	RU 2M	Axial (R1)		
1.1	20	0.4	0.18	RU 3	Axial (R2)		
	50	0.4	0.18	RU 3M			
1.5	20	0.4	0.18	RU 3	Axial (R2)		
	50	0.4	0.18	RU 3M			
2.0	200	0.4	0.18	RU 30	Axial (R3)		
	150	0.4	0.18	RU 31			
3.0	50	0.4	0.18	RU 4	Axial (R4)		
	50	0.4	0.18	RU 4			
3.5	70	0.4	0.18	RU 4M	Axial (R4)		
	15	0.4	0.18	EU01A		Axial (E0)	21
0.25	15	0.4	0.18	EU 1A	Axial (E1)		
	15	0.4	0.18	RU 1A	Axial (R1)		
	15	0.4	0.18	AU01A	Axial (A0)		
0.5	20	1.5	0.6	AS01A			
	30	4.0	1.3	EH 1A		Axial (E1)	
	15	0.4	0.18	RF 1A	Axial (R1)		
0.6	35	4.0	1.3	RH 1A			
	30	1.5	0.6	ES01A		Axial (E0)	
0.7	30	1.5	0.6	ES 1A	Axial (E1)		
	30	1.5	0.6	RS 1A	Axial (R1)		
0.8	25	0.4	0.18	AU02A	Axial (A0)		
	15	0.4	0.18	EU02A	Axial (E0)		
1.0	15	0.4	0.18	EU 2A	Axial (E1)		
	20	0.4	0.18	RU 2	Axial (R1)		
	20	0.4	0.18	RU 2AM			
20	0.4	0.18	RU 20A				
1.1	20	0.4	0.18	RU 2AM	Axial (R1)		
	20	0.4	0.18	RU 20A			
1.5	20	0.4	0.18	RU 3A	Axial (R2)		
	50	0.4	0.18	RU 3AM			
2.0	200	0.4	0.18	RU 30A	Axial (R3)		
	150	0.4	0.18	RU 31A			
3.0	50	0.4	0.18	RU 4A	Axial (R4)		
	50	0.4	0.18	RU 4A			
3.5	70	0.4	0.18	RU 4AM	Axial (R4)		
	5.0	30	0.4	0.18		FMU-G16S	TO-220F-2Pin
10.0	40	0.4	0.18	FMU-G26S			

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	trr ① (μs)	trr ② (μs)	Part Number	Package	Page	
800	0.25	15	0.4	0.18	RU 1B	Axia (R1)	22	
		15	0.4	0.18	RF 1B			
	0.6	35	4.0	1.3	RH 1B			
		30	1.5	0.6	RS 1B			
	1.0	20	0.4	0.18	RU 2B			
	1.1	20	0.4	0.18	RU 3B			Axial (R2)
	3.0	50	0.4	0.18	RU 4B			Axial (R4)
1000	0.2	15	0.4	0.18	RU 1C	Axial (R1)	23	
		35	4.0	1.3	RH 1C			
	0.6	35	4.0	1.3	RH 1C			
	0.8	20	0.4	0.18	RU 2C			Axial (R2)
	1.5	20	0.4	0.18	RU 3C			Axial (R2)
1500	0.5	20	1.5	0.6	ES01F	Axial (E0)	24	
		20	1.5	0.6	ES 1F	Axial (E1)		
	2000	0.2	20	4.0	1.3	RC 2		Axial (R1)

### ●2 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	trr ① (μs)	trr ② (μs)	Part Number	Package	Page
100	10.0	40	0.4	0.18	FMU-21S, R	TO-220F	18
	5.0	30	0.4	0.18	FMU-12S, R	TO-220F	
200	10.0	40	0.4	0.18	FMU-22S, R		FM80
	20.0	80	0.4	0.18	FMU-32S, R		
400	5.0	30	0.4	0.18	FMU-14S, R	TO-220F	20
	10.0	40	0.4	0.18	FMU-24S, R		
	20.0	80	0.4	0.18	FMU-34S, R		
600	5.0	30	0.4	0.18	FMU-16S, R	TO-220F	21
	10.0	40	0.4	0.18	FMU-26S, R		
	20.0	80	0.4	0.18	FMU-36S, R		

## Ultra-Fast-Recovery Rectifier Diodes

t<sub>rr</sub> ①: I<sub>R</sub> = I<sub>F</sub> 90% Recovery Point  
t<sub>rr</sub> ②: I<sub>R</sub> = 2 • I<sub>F</sub> 75% Recovery Point

### ●1 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr</sub> ① (ns)	t <sub>rr</sub> ② (ns)	Part Number	Package	Page
70	1.0	25	100	50	AG01Y	Axial (A0)	25
	1.1	30	100	50	EG01Y	Axial (E0)	
		30	100	50	EG 1Y	Axial (E1)	
	1.5	50	100	50	RG 10Y	Axial (R1)	
		50	100	50	RG 2Y	Axial (R2)	
3.5	100	100	50	RG 4Y	Axial (R4)		
200	0.7	15	100	50	AG01Z	Axial (A0)	26
	0.8	15	100	50	EG01Z	Axial (E0)	
		15	100	50	EG 1Z	Axial (E1)	
	0.9	25	50	35	SFPL-52	Surface Mount (SFP)	
		25	50	35	SFPL-62		
	1.0	25	50	35	AL01Z	Axial (A0)	
		25	100	50	EN 01Z	Axial (E0)	
	1.2	50	100	50	RG 10Z	Axial (R1)	
		50	100	50	RG 2Z	Axial (R2)	
	1.5	30	30	25	SFPX-62	Surface Mount (SFP)	
		25	40	30	EL02Z	Axial (E0)	
		20	50	35	EL 1Z	Axial (E1)	
	2.0	60	100	50	RN 1Z	Axial (R1)	
		30	50	35	RL 10Z		
		30	50	35	RL 2Z		
3.0	70	100	50	RN 2Z	Axial (R2)		
	80	30	25	RX 3Z	Axial (R3)		
	80	100	50	RN 3Z			
	80	100	50	RG 4Z	Axial (R4)		
3.5	50	30	25	SPX-G32S	Surface Mount (D Pack)		
	80	50	35	RL 3Z	Axial (R3)		
	80	50	35	RL 4Z	Axial (R4)		
120	100	50	RN 4Z				
5.0	65	40	30	FML-G12S	TO-220F-2Pin		
	100	100	50	FMN-G12S			
	65	150	70	FMP-G12S			
	65	30	25	FMX-G12S			
	150	30	25	FMX-G22S			
10.0	150	40	30	FML-G22S			
300	2.0	30	30	25	SFPX-63	Surface Mount (SFP)	28
	5.0	70	50	35	FML-G13S	TO-220F-2Pin	
400	0.7	15	100	50	AG01	Axial (A0)	29
	0.8	15	100	50	EG01	Axial (E0)	
		15	100	50	EG 1	Axial (E1)	
	1.2	50	100	50	RG 10	Axial (R1)	
		50	100	50	RG 2	Axial (R2)	
	1.5	25	50	35	EL 1	Axial (E1)	
	2.0	40	50	35	RL 2	Axial (R2)	
	3.0	80	100	50	RG 4	Axial (R4)	
	3.5	80	50	35	RL 3	Axial (R3)	
		70	50	35	FML-G14S		
70		100	50	FMN-G14S			
5.0	70	30	25	FMX-G14S	TO-220F-2Pin		
600	0.5	15	100	50	AG01A	Axial (A0)	30
	0.6	10	100	50	EG01A	Axial (E0)	
		10	100	50	EG 1A	Axial (E1)	
	1.0	50	100	50	RG 10A	Axial (R1)	
		50	100	50	RG 2A	Axial (R2)	
	1.2	30	50	35	RL 2A	Axial (R2)	
		60	50	35	RL 3A		
	2.0	50	100	50	RG 4A	Axial (R4)	
		50	100	50	RL 4A		
	4.0	80	50	35	RL 4A	Axial (R4)	
		50	100	50	FMG-G26S		
		50	50	35	FML-G16S		
5.0	50	100	50	FMN-G16S	TO-220F-2Pin		
	50	30	25	FMX-G16S			
	80	80	100	50		FMG-G36S	

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr</sub> ① (ns)	t <sub>rr</sub> ② (ns)	Part Number	Package	Page
600	10.0	100	65	35	FML-G26S	TO-220F-2Pin	30
		100	50	30	FMD-G26S		
		100	30	25	FMX-G26S		
800	3.0	50	70	35	FMC-G28S	TO-220F-2Pin	32
	5.0	60	70	35	FMC-G28SL		
1000	0.2	5	200	80	AP01C	Axial (A0)	33
		5	200	80	EP01C	Axial (E0)	
	0.4	10	100	50	RU 1P	Axial (R1)	
	0.5	10	100	50	EG01C	Axial (E0)	
	0.7	10	100	50	RG 1C	Axial (R1)	
	2.0	60	100	50	RG 4C	Axial (R4)	
	3.0	30	100	50	FMG-G2CS	TO-220F-2Pin	
	5.0	60	150	70	FMG-G3CS	FM80-2Pin	
2000	0.1	5	200	80	RP 1H	Axial (R1)	34

### ●2 in one-package

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr</sub> ① (ns)	t <sub>rr</sub> ② (ns)	Part Number	Package	Page
200	5.0	35	30	25	FMX-12S	TO-220F	26
		35	40	30	FML-12S		
		35	100	50	FMG-12S, R		
	6.0	80	30	25	SPX-62S	Surface Mount (D Pack)	
		65	30	25	FMX-22S	TO-220F	
	10.0	65	40	30	FML-22S		
		65	100	50	FMG-22S, R		
		15.0	100	30	25	FMX-22SL	
	20.0	150	30	25	FMX-32S	FM80	
		150	40	30	FML-32S		
150		100	50	FMG-32S, R			
300	5.0	40	50	35	FML-13S	TO-220F	28
		35	100	50	FMG-13S, R		
	10.0	70	50	35	FML-23S		
		65	100	50	FMG-23S, R		
		65	30	25	FMX-23S		
	20.0	100	50	35	FML-33S		
150		100	50	FMG-33S, R			
100		30	25	FMX-33S			
400	5.0	40	50	35	FML-14S	TO-220F	29
		35	100	50	FMG-14S, R		
	8.0	65	100	50	FMG-24S, R		
	10.0	70	50	35	FML-24S		
	16.0	100	100	50	FMG-34S, R		
20.0	100	50	35	FML-34S			
600	3.0	50	70	35	FMC-26U	TO-220F	30
	6.0	50	100	50	FMG-26S, R		
	15.0	80	100	50	FMG-36S, R	FM80	
		20.0	100	65	35		
800	3.0	50	70	35	FMC-28U	TO-220F	31
1200	3.0	50	70	35	FMC-26UA	TO-220F-2Pin	34
1600	3.0	50	70	35	FMC-28UA		

### ●Bridge

V <sub>RM</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	t <sub>rr</sub> ① (ns)	t <sub>rr</sub> ② (ns)	Part Number	Package	Page
200	4.0	80	40	30	RBV-402L	RBV-40	26
	6.0	100	50	35	RBV-602L	RBV-60	

# Selection Guide

## Schottky Barrier Diodes

### ● 1 in one-package

V <sub>RM</sub> (V)	I <sub>O</sub> (A)	V <sub>F</sub> (A)	Part Number	Package	Page
30	1.0	0.47	MI1A3	Surface Mount (Small)	35
		0.39	MI2A3		
		0.36	SFPA-53	Surface Mount (SFP)	
		0.45	SFPJ-53		
		0.55	AK 03	Axial (A0)	
		0.36	EA 03	Axial (E0)	
	0.55	EK 03			
	1.5	0.55	EK 13	Axial (E1)	
	1.7	0.55	RK 13	Axial (R1)	
	2.0	0.36	SFPA-63	Surface Mount (SFP)	
		0.45	SFPJ-63		
		0.55	SFPE-63		
	2.5	0.36	RA 13	Axial (R1)	
		0.55	RK 33	Axial (R2)	
	3.0	0.36	SFPA-73	Surface Mount (SFP)	
		0.45	SFPJ-73		
		0.45	RJ 43	Axial (R4)	
	0.55	RK 43			
5.0	0.45	SPJ-G53S	Surface Mount (D Pack)		
40	0.5	0.58	SSB-14	Surface Mount (SOT23)	36
	1.0	0.55	SFPB-54	Surface Mount (SFP)	
		0.55	AK 04	Axial (A0)	
		0.58	AW 04		
		0.55	EK 04	Axial (E0)	
	1.5	0.55	SFPB-64	Surface Mount (SFP)	
		0.55	EK 14	Axial (E1)	
	1.7	0.55	RK 14	Axial (R1)	
	2.0	0.50	SFPB-74	Surface Mount (SFP)	
		0.60	SFPE-64		
	2.5	0.55	RK 34	Axial (R2)	
	3.0	0.55	SPB-G34S	Surface Mount (D Pack)	
		0.55	RK 44	Axial (R4)	
		0.55	FMB-G14	TO-220F-2Pin	
	5.0	0.55	SPB-G54S	Surface Mount (D Pack)	
		0.55	FMB-G14L	TO-220F-2Pin	
	10.0	0.55	FMB-G24H	TO-220F-2Pin	
	60	0.7	0.62	SFPB-56	
0.62			AK 06	Axial (R0)	
0.62			EK 06	Axial (E0)	
1.5		0.62	EK 16	Axial (E1)	
		0.62	RK 16	Axial (R1)	
2.0		0.62	SFPB-76	Surface Mount (SFP)	
		0.69	SFPB-66		
3.5		0.62	RK 36	Axial (R2)	
3.5		0.62	RK 46	Axial (R4)	
5.0		0.62	FMB-G16L	TO-220F-2Pin	
6.0		0.70	SPB-G56S	Surface Mount (D Pack)	
90		0.7	0.81	SFPB-59	Surface Mount (SFP)
	0.81		AK 09	Axial (A0)	
	0.81		EK 09	Axial (E0)	
	1.5	0.81	SFPB-69	Surface Mount (SFP)	
		0.81	EK 19	Axial (E1)	
	0.81	RK 19	Axial (R1)		
	2.0	0.81	RK 39	Axial (R2)	
	3.5	0.81	RK 49	Axial (R4)	
	4.0	0.81	FMB-G19L	TO-220F-2Pin	

### ● 2 in one-package

V <sub>RM</sub> (V)	I <sub>O</sub> (A)	V <sub>F</sub> (A)	Part Number	Package	Page	
30	6.0	0.45	SPJ-63S	Surface Mount (D Pack)	35	
	10.0	0.45	FMJ-23L	TO-220F		
	20.0	0.45	FMJ-2203			
	30.0	0.45	FMJ-2303			
40	4.0	0.55	FMB-24	TO-220F	36	
	6.0	0.55	SPB-64S	Surface Mount (D Pack)		
		0.55	FMB-24M	TO-220F		
	10.0	0.55	FMW-24L	TO-220F		
		0.60	FME-24L			
	12.0	0.58	FMB-34S	FM80		
		15.0	0.60	MPE-24H		TO-220S
			0.55	FMW-24H		TO-220F
		0.55	FMB-24H			
	20.0	0.60	FME-24H	FM80		
		0.55	FMB-34	FM80		
	30.0	0.55	FMB-2204	TO-220F		
0.55		FMB-2304	TO-220F			
60	4.0	0.62	FMB-26	TO-220F	38	
	6.0	0.65	SPB-66S	Surface Mount (D Pack)		
	10.0	0.62	FMB-26L	TO-220F		
	15.0	0.62	FMB-36	FM80		
	20.0	0.7	FMB-2206	TO-220F		
		0.62	FMB-2306	FM80		
90	4.0	0.81	FMB-29	TO-220F	39	
	8.0	0.81	FMB-29L	TO-220F		
	15.0	0.81	FMB-39	FM80		
	20.0	0.85	MPE-29G	TO-220S		
0.81		FMB-39M	FM80			
100	20.0	0.85	FME-220A	TO-220F		
	30.0	0.85	FME-230A			

### ● Bridge

V <sub>RM</sub> (V)	I <sub>O</sub> (A)	V <sub>F</sub> (A)	Part Number	Package	Page
60	4.0	0.62	RBV-406B	RBV-40	38

# Selection Guide

## Damper Diodes

t<sub>rr</sub> ①: I<sub>R</sub> = I<sub>F</sub> 90% Recovery Point  
t<sub>rr</sub> ②: I<sub>R</sub> = 2 • I<sub>F</sub> 75% Recovery Point

Application	V <sub>RM</sub>	I <sub>F</sub>	t <sub>rr</sub> ①	t <sub>rr</sub> ②	Part Number	Package	Page
	(V)	(A)	(μs)	(μs)			
For TV	1300	1.0	4.0	1.3	RH 2D	Axial (R2)	40
	1500	0.8	4.0	1.3	RH 10F	Axial (R1)	
		1.0	4.0	1.3	RH 2F	Axial (R2)	
		2.0	2.0	0.8	RS 3FS	Axial (R3)	
		2.5	4.0	1.3	RH 3F		
			4.0	1.3	RH 4F		
		1.0	0.4	RS 4FS	Axial (R4)		
	10.0	2.0	0.8	FMV-G5FS	TO-3PF-2Pin		
	1600	2.5	4.0	1.3	RH 3G	Axial (R3)	
	1800	10.0	1.8	0.7	FMR-G5HS	TO-3PF-2Pin	
For CRT Display	1300	1.5	0.4	0.18	RU 4D	Axial (R4)	
		2.5	0.4	0.18	RU 4DS		
	1500	2.0	0.7	0.3	RP 3F	Axial (R3)	
			0.7	0.3	FMP-G2FS		
		10.0	0.7	0.3	FMQ-G1FS	TO-220F-2Pin	
			0.5	0.2	FMQ-G2FS		
			0.5	0.2	FMQ-G2FMS		
			0.6	0.25	FMU-G2FS		
	1.2	0.4	FMQ-G2FLS				
	0.5	0.2	FMQ-G5FMS				
1700	10.0	0.5	0.2	FMQ-G5GS	TO-3PF-2Pin		
1800	8.0	1.0	0.4	FMP-G5HS			
For CRT Display Compensation	1300	0.5	0.1	0.05	RG 2A2	Axial (R2)	
	1600	1.0	0.07	0.035	RC 3B2	Axial (R3)	

## Damper Diodes for Diode Moduration

Application	V <sub>RM</sub>	I <sub>F</sub>	t <sub>rr</sub> ①	t <sub>rr</sub> ②	Part Number	Package	Page
	(V)	(A)	(μs)	(μs)			
For TV	1500/600	5.0	4.0/0.4	1.3/0.18	FMV-3FU	TO-3PF	41
	1700/600	5.0	2.0/0.4	0.8/0.18	FMV-3GU		
For CRT Display	1500/600	5.0	0.7/0.1	0.3/0.05	FMP-3FU	TO-3PF	
			0.7/0.1	0.3/0.05	FMP-2FUR	TO-220F	
			2.0/0.15	0.8/0.07	FMQ-2FUR		
			1.0/0.1	—	FMT-2FUR		
	1700/800	5.0	0.7/0.07	0.3/0.04	FMQ-3GU	TO-3PF	

## High-Voltage Rectifier Diodes

Application	V <sub>RM</sub>	I <sub>F (AV)</sub>	Part Number	V <sub>F</sub> max	t <sub>rr</sub> (μs) I <sub>F</sub> = I <sub>RP</sub>		Package	Page
	(kV)	(mA)		(V)	T <sub>a</sub> = 25°C	T <sub>a</sub> = 100°C		
For General Purpose	2	2	SHV-02	16	0.18	—	Axial	42
	3	2	SHV-03S	16	0.18	—		
	3	2	SHV-03	16	0.18	—		
For General FBT	10	2*	SHV-10	40	0.18	—		
	12	2*	SHV-12	45	0.18	—		
	14	2*	SHV-14	55	0.18	—		
	16	2*	SHV-16	60	0.18	—		
	20	2*	SHV-20	75	0.18	—		
	24	2*	SHV-24	75	0.18	—		
For High Frequency Multi-layer FBT	6	2*	SHV-06EN	26	0.15	0.2		
	8	2*	SHV-08EN	30	0.15	0.2		
	10	2*	SHV-10EN	38	0.15	0.2		
	12	2*	SHV-12EN	45	0.15	0.2		
For Ultra-High Frequency Multi-layer FBT	8	2*	SHV-08DN	30	0.15	0.2		
	10	2*	SHV-10DN	38	0.15	0.2		
	12	2*	SHV-12DN	45	0.15	0.2		
For General Type Microwave Oven	9	350	HVR-1X-40B	9	—	—		
For Inverter Type Microwave Oven	8	350	UX-F5B	14	0.15	—		
For Automotive Ignition Coil	2.5	30	SHV-05JS	5	V <sub>Z</sub> = 2.6 to 5.0kV			
	4	30	SHV-08J	8	V <sub>Z</sub> = 4.5 to 8.0kV			
	15	30	SHV-30J	30	V <sub>Z</sub> = 16.0 to 30.0kV			

\* TV High Voltage Rectifier Capacitive Load, T<sub>c</sub> ≤ 100°C



## Selection Guide

### Avalanche Diodes with built-in Thyristor

V <sub>Z</sub> (V)	V <sub>RDC</sub> (V)	I <sub>TSM</sub> (A)	Part Number	Package	Page
27 to 33	20	30	RZ1030	Axial (R1)	44
34 to 40	28	30	RZ1040		
50 to 60	40	30	RZ1055		
60 to 70	50	30	RZ1065		
90 to 110	80	30	RZ1100		
115 to 135	105	30	RZ1125		
140 to 160	125	30	RZ1150	Axial (E0)	
			EZ1050		
150 to 165	138.7	30	RZ1155	Axial (R1)	
165 to 185	150	30	RZ1175		
185 to 215	180	30	RZ1200		

### Power Zener Diodes

V <sub>Z</sub> (V)	P <sub>R</sub> (W)	V <sub>DC</sub> (V)	I <sub>ZSM</sub> (A)	Part Number	Package	Page
28±3.0	1500	20	65.0	PZ 628	Axial	45
28±3.0	50	20	2.0	SFPZ-68	Surface Mount (SFP)	
36±3.6	450	30	11.0	SPZ-G36	Surface Mount (D Pack)	

### Silicon Varistors

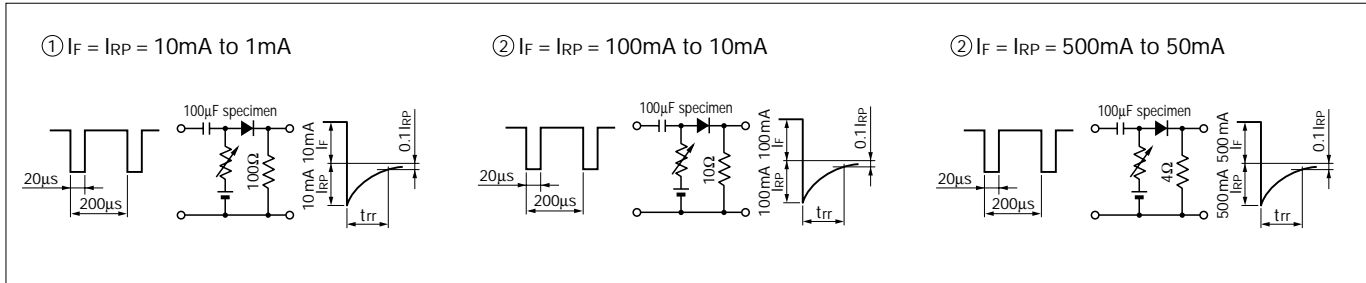
Division	V <sub>F</sub> (V)	I <sub>F</sub> (mA)	I <sub>FSM</sub> (A)	Part Number	Package	Page
Symmetrical type	1.5 max	400	15	VR-60SS	Axial (E0)	46
	2.3±0.25	150	7.5	VR-61SS		
	4 max	150	—	SV-2SS		
	2 max	250	—	SV-3SS		
	1.8±0.2	150	—	SV-4SS		
Unsymmetrical type	1.2±0.2	200	30	SV 02YS	Axial (E0)	47
	1.8±0.2	150	16	SV 03YS		
	2.35±0.25	100	12	SV 04YS		
	3.0±0.3	80	10	SV 05YS		
	3.5±0.35	70	8	SV 06YS		

# Symbols and Terms / trr Measurement Circuit

## Symbols and Terms

$V_{RSM}$	Peak Reverse Surge Voltage	$I_R$	Reverse Current	$t_{rr}$	Reverse Recovery Time
$V_{RM}$	Peak Reverse Voltage	$I_{RP}$	Peak Reverse Current	$C_t$	Total Capacitance Between Terminals
$V_{P-P}$	Reverse Voltage (Peak to Peak)	$I_{R(H)}$	Reverse Current (High Temperature)	$R_{th(j-l)}$	Thermal Resistance, Junction to Lead
$V_R$	Reverse Voltage	$I_Z$	Avalanche Current	$R_{th(j-c)}$	Thermal Resistance, Junction to Case
$V_F$	Forward Voltage	$I_{ZSM}$	Allowable Avalanche Current	$r_z$	Temperature Coefficient of Breakdown Voltage
$V_B$	Breakdown Voltage	$T_a$	Ambient Temperature	$R_Z$	Equivalent Resistance of Breakdown region
$I_F$	Forward Current	$T_j$	Junction Temperature	$P_{F(AV)}$	Average Forward Power Dissipation
$I_{F(AV)}$	Average Forward Current	$T_{opr}$	Operating Ambient Temperature	$I^2t$	$I^2t$ Limiting Value
$I_{FSM}$	Peak Forward Surge Current	$T_c$	Case Temperature		
$I_{RSM}$	Peak Reverse Surge Current	$T_{stg}$	Storage Temperature		

## trr (Reverse Recovery Time) Measurement Circuit



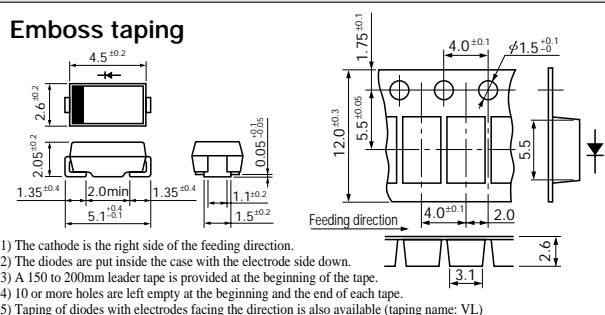
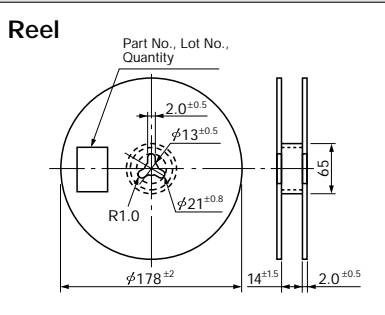
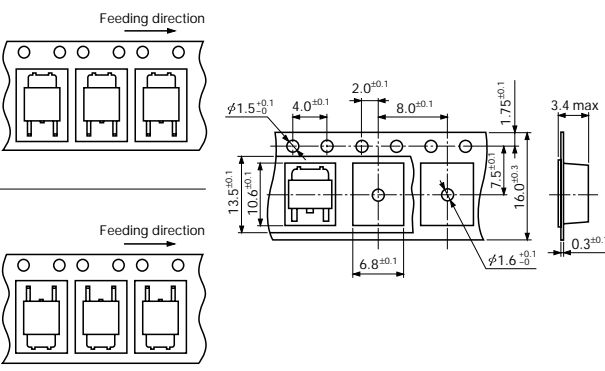
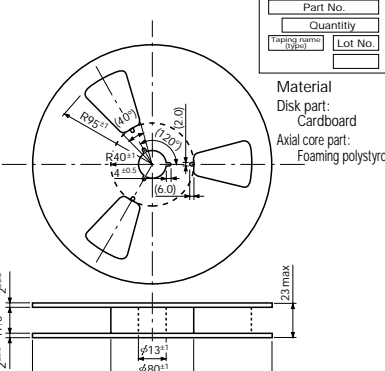
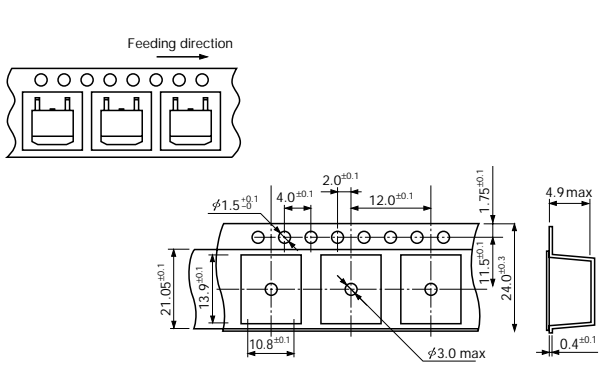
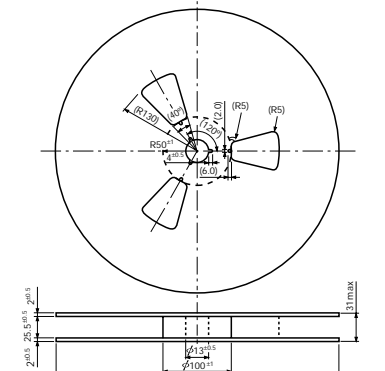
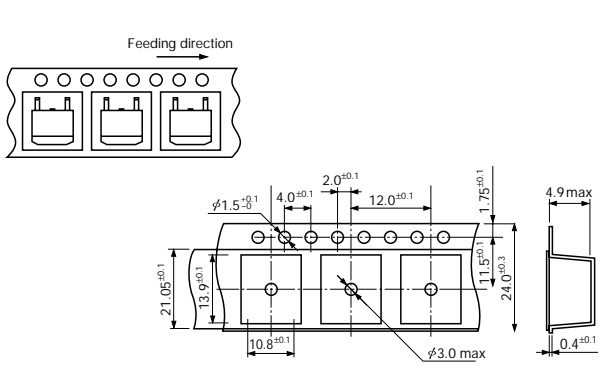
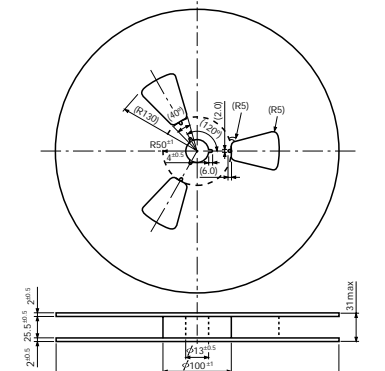
## Taping Specifications

Taping name	Taping Dimensions (mm)	Package Dimensions (mm) and Markings	Quantity
<p><b>V</b></p> <p>The suffix "V" is added to the Part Number</p>	<p><b>Axial taping</b></p>	<p><b>Reel</b></p>	<p>5,000 pcs/reel (2.7φ body) (2.4φ body)</p> <p>3,000 pcs/reel (4φ body)</p>
<p><b>V1</b></p> <p>The suffix "V1" is added to the Part Number</p>	<p><b>Axial taping</b></p>	<p><b>Ammunition (Ammo) pack</b></p>	<p>2,000 pcs/box (2.7φ body)</p> <p>3,000 pcs/box (2.4φ body)</p> <p>1,000 pcs/box (4φ body)</p>

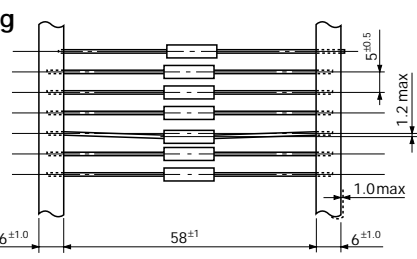
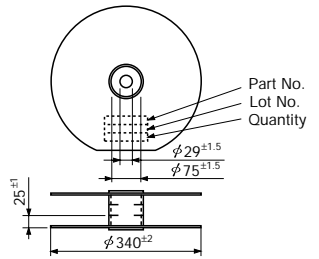
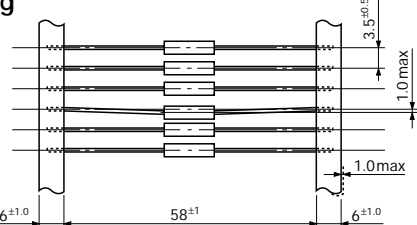
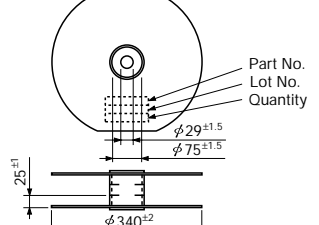
# Taping Specifications

Taping name	Taping Dimensions (mm)	Package Dimensions (mm) and Markings	Quantity
<b>V0</b>  The suffix "V0" is added to the Part Number	<b>Axial taping</b> 	<b>Ammunition (Ammo) pack</b> 	2,000 pcs/box (2.7 φ body)  3,000 pcs/box (2.4 φ body)
<b>V3</b>  The suffix "V3" is added to the Part Number	<b>Axial taping</b> 	<b>Reel</b> 	1,500 pcs/reel (5.2 φ body)
<b>V4</b>  The suffix "V4" is added to the Part Number	<b>Axial taping</b> 	<b>Ammunition (Ammo) pack</b> 	1,000 pcs/box (5.2 φ body)
<b>W</b>  The suffix "W" is added to the Part Number	<b>Radial taping</b> 	<b>Ammunition (Ammo) pack</b> 	4,000 pcs/box (2.7 φ body) (0.6 φ lead only)
<b>WS</b>  The suffix "WS" is added to the Part Number	<b>Radial taping (for A0 series)</b> 	<b>Ammunition (Ammo) pack</b> 	2,500 pcs/box (2.4 φ body)
<b>WK</b>  The suffix "WK" is added to the Part Number	<b>Radial taping (for A0 series)</b> 		2,500 pcs/box (2.4 φ body)

# Taping Specifications for Surface Mount

Taping name		Taping Dimensions (mm)	Package Dimensions (mm) and Markings	Quantity
SFP	<b>V</b>  The suffix "V" is added to the Part Number	<b>Emboss taping</b>  <p>(1) The cathode is the right side of the feeding direction.                      (2) The diodes are put inside the case with the electrode side down.                      (3) A 150 to 200mm leader tape is provided at the beginning of the tape.                      (4) 10 or more holes are left empty at the beginning and the end of each tape.                      (5) Taping of diodes with electrodes facing the direction is also available (taping name: VL)</p>	<b>Reel</b> 	1,800 pcs/reel
		<b>VL</b> The suffix "VL" is added to the Part Number 	 <p>Material                      Disk part: Cardboard                      Axial core part: Foaming polystyrene</p>	3,000 pcs/reel
D Pack	<b>VR</b>  The suffix "VR" is added to the Part Number			3,000 pcs/reel
		<b>VR</b>  The suffix "VR" is added to the Part Number 		1,000 pcs/reel

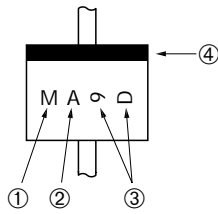
# Taping Specifications for High-Voltage Diodes

Taping name		Taping Dimensions (mm)	Package Dimensions (mm) and Markings	Quantity
V1	<b>Axial taping</b>  The suffix "V1" is added to the Part Number			5,000 pcs/reel
		<b>VD</b>  The suffix "VD" is added to the Part Number 		8,000 pcs/reel

# Marking Guide

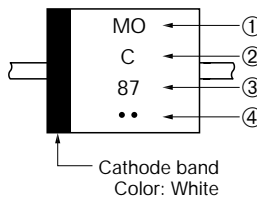
Note: high-voltage rectifier diodes shall have different specifications.

## 1 Axial (A0)



- Part Number (abbreviation)  
The AM01 is indicated as "M."
- Class  
Z: 200V None: 400V A: 600V  
B: 800V C: 1000V
- Manufacturing date  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)
- Cathode band: Continuous band  
Color of markings: White  
(Yellow for AU02 series)

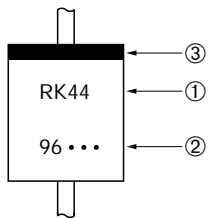
## 2 Axial (E0, E1)



- Part Number (abbreviation)  
EM01, EM2, EM1 are indicated as MO, M2 and M1, respectively.
- Class  
Z: 200V None: 400V A: 600V  
B: 800V C: 1000V F: 1500V  
But EU02A is indicated as A2 and EU2YX as Y.
- Manufacturing date  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)
- Manufacturing period
  - First 10 days of month
  - Middle 10 days of month
  - Last 10 days of month

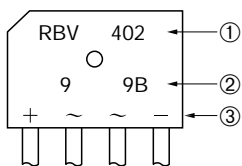
Cathode band  
Color: White

## 3 Axial (R1, R2, R3, R4)



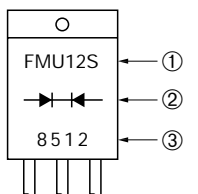
- Part Number: 2 set marking
- Manufacturing date and period: 2 set marking  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)
  - First 10 days of month
  - Middle 10 days of month
  - Last 10 days of month
- Cathode band  
Color of markings:
  - White: For Power Supply and SBD
  - Yellow: For Medium speed
  - Red: For High-speed and ultra high-speed

## 4 RBV



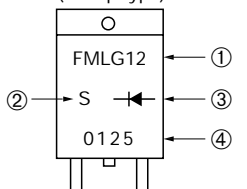
- Part Number
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)  
Third character: A—First 10 days of month  
B—Middle 10 days of month  
C—Last 10 days of month
- Input/output marking  
Laser marking or White marking

## 5 TO-220F Type



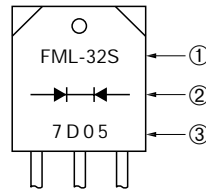
- Part Number  
FMU-12S is indicated as "FMU12S."
- Polarity: Rectifier Symbol
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)  
Third and fourth characters: Day  
Laser marking or White marking

(1-chip type)



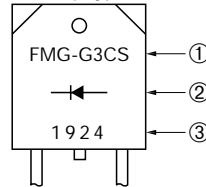
- Part Number: Excluding last character  
FML-G12S is indicated as "FML-G12."
- Last character of Part Number
- Polarity: Rectifier Symbol
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)  
Third and fourth characters: Day  
Laser marking or White marking

## 6 TO-3PF, FM80 Type

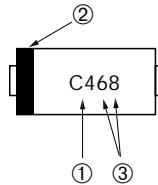


- Part Number: Full name
- Polarity: Rectifier Symbol
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)  
Third and fourth characters: Day  
Laser marking or White marking

(1-chip type)

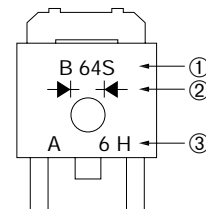


## 7 Surface Mount (SFP)



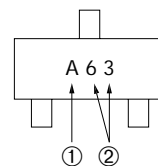
- Part Number: abbreviation  
SFPB-64 is indicated as "C4"
- Cathode band
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)

## 8 Surface Mount (D Pack)



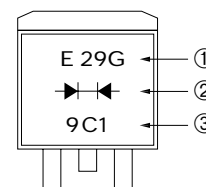
- Part Number
- Polarity: Rectifier Symbol
- Lot No.  
First character: Lot code  
Second character: Year (Last digit of year)  
Third character: Month (A to M except I)

## 9 Surface Mount (SOT23)



- Part Number: abbreviation  
SSB-14 is indicated as "A"
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)

## 10 Surface Mount (LD Pack)



- Part Number
- Polarity: Rectifier Symbol
- Lot No.  
First character: Year (Last digit of year)  
Second character: Month (A to M except I)  
Third character: Week

## 11 High-Voltage Rectifier Diode

Refer P42 to P43

## 12 Silicon Varistors

Refer P46 to P47

# Rectifier Diodes

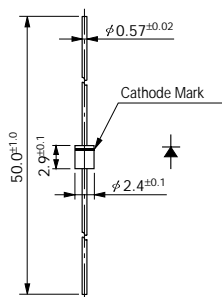
# 100V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>R</sub> (μA)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown	
				50Hz Half-cycle Sinewave Single Shot				V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max					
100	Axial	EM 1Y	1.0	45	-40 to +150	0.97	1.0	10	50	100	17	0.3	<b>1</b>	48
		RM 4Y	1.7 (3.0)	200	-40 to +150	0.95	3.0	10	50	100	8	1.2	<b>2</b>	50
	Center-tap	FMM-31S, R	20	120	-40 to +150	1.1	10	10	100	100	2.0	5.5	<b>3</b>	51
	Bridge	RBV-401	4.0	80	-40 to +150	1.05	2.0	10	100	100	5.0	4.05	<b>4</b>	51
		RBV-601	6.0	120	-40 to +150	1.0	3.0	10	100	100	3.0	6.45	<b>5</b>	52

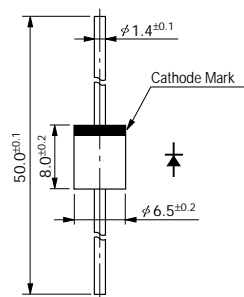
## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

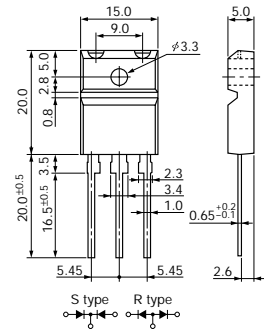
**1**



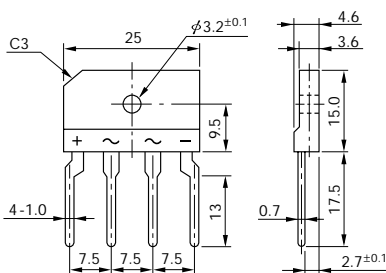
**2**



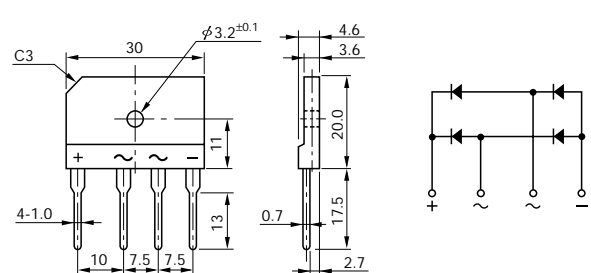
**3**



**4**



**5**

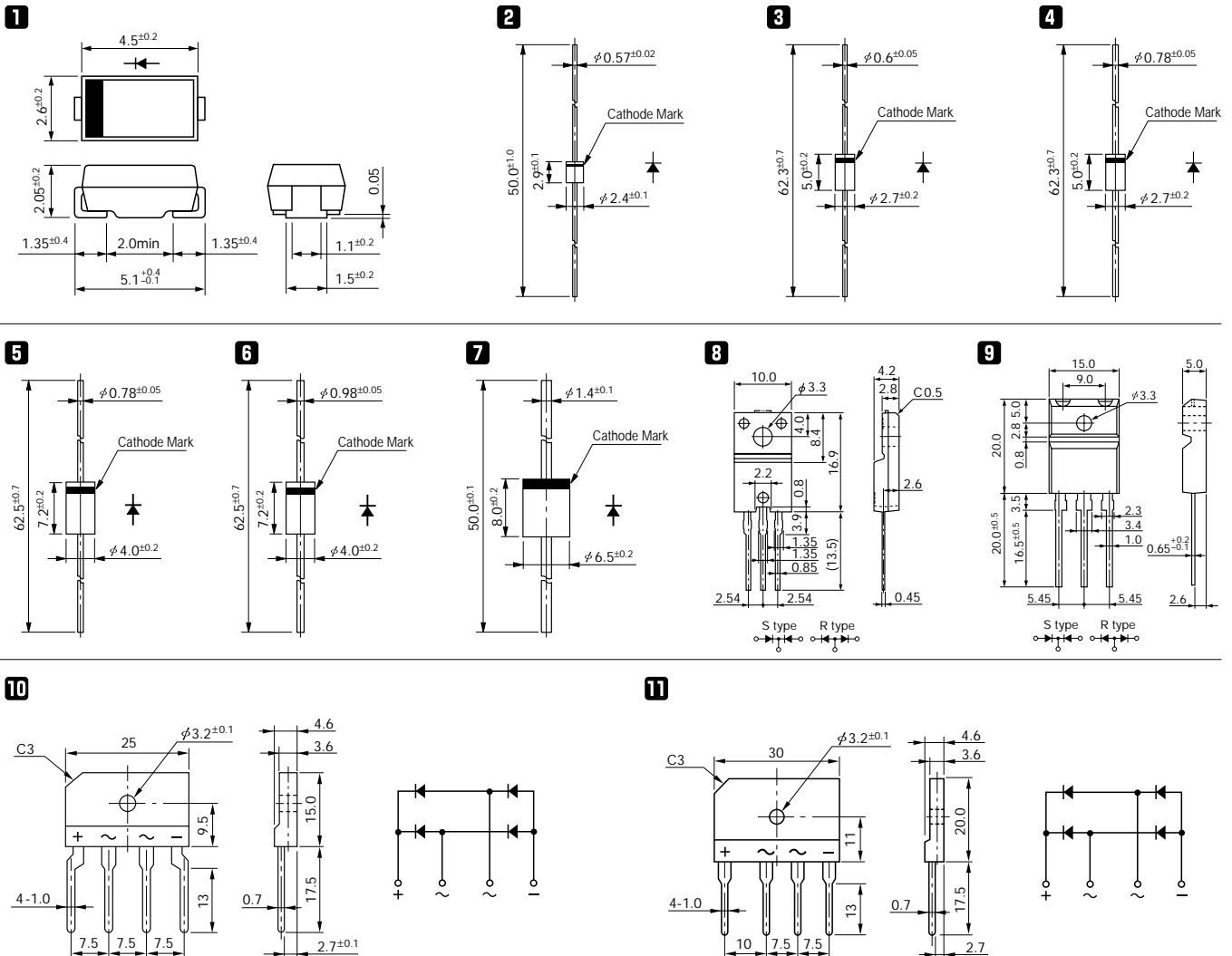


# Rectifier Diodes 200V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>R</sub> (μA)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown	
			( ) is with Heatsink	50Hz Half-cycle Sinewave Single Shot				V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max					
200	Surface Mount	SFPM-52	0.9	30	-40 to +150	1.0	1.0	10	50	100	20	0.072	1	48
		SFPM-62	1.0	45	-40 to +150	0.98	1.0	10	50	100	20	0.072		
	Axial	AM01Z	1.0	35	-40 to +150	0.98	1.0	10	50	100	22	0.13	2	48
		EM01Z	1.0	45	-40 to +150	0.97	1.0	10	50	100	20	0.2		
		EM 1Z	1.0	45	-40 to +150	0.97	1.0	10	50	100	17	0.3	4	
		RM 1Z	1.0	50	-40 to +150	0.95	1.0	5	50	100	15	0.4	5	49
		RM 10Z	1.5	120	-40 to +150	0.91	1.5	10	50	100	15	0.4		
		RO 2Z	1.2	80	-40 to +150	0.92	1.5	10	50	100	12	0.61	6	50
		RM 2Z	1.2	100	-40 to +150	0.91	1.5	10	50	100	12	0.6		
	RM 4Z	1.7 (3.0)	200	-40 to +150	0.95	3.0	10	50	100	8	1.2	7	50	
	Center-tap	FMM-22S, R	10	100	-40 to +150	1.1	5.0	10	100	100	4.0	2.1	8	50
		FMM-32S, R	20	120	-40 to +150	1.1	10	10	100	100	2.0	5.5	9	51
	Bridge	RBV-402	4.0	80	-40 to +150	1.05	2.0	10	100	100	5.0	4.05	10	51
		RBV-602	6.0	120	-40 to +150	1.0	3.0	10	100	100	3.0	6.45	11	52
RBV-4102		10	80	-40 to +150	1.1	5.0	10	100	150 (T <sub>J</sub> )	2.0	4.05	10	—	

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



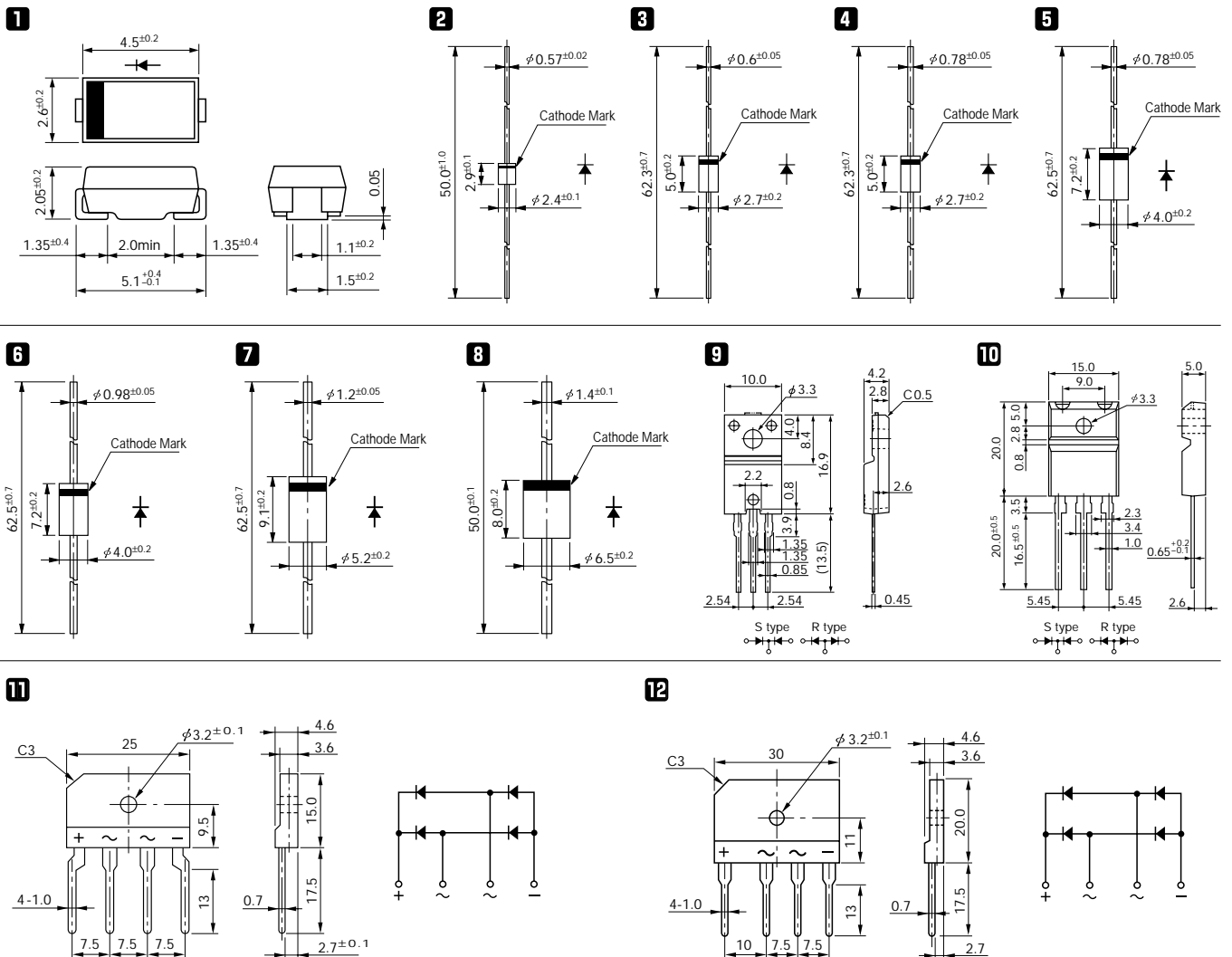
# Rectifier Diodes

## 400V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	R <sub>th(j-ℓ)</sub> R <sub>th(j-c)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max				
400	Surface Mount	SFPM-54	0.9	30	-40 to +150	1.0	1.0	10	50	100	20	0.072	1	48
		SFPM-64	1.0	45	-40 to +150	0.98	1.0	10	50	100	20	0.072		
	Axial	AM01	1.0	35	-40 to +150	0.98	1.0	10	50	100	22	0.13	2	48
		EM01	1.0	45	-40 to +150	0.97	1.0	10	50	100	20	0.2		
		EM 1	1.0	45	-40 to +150	0.97	1.0	10	50	100	17	0.3	4	
		RM 1	1.0	50	-40 to +150	0.95	1.0	5	50	100	15	0.4		5
		EM 2	1.2	80	-40 to +150	0.92	1.2	10	50	100	17	0.3	4	
		RM 10	1.2	150	-40 to +150	0.91	1.5	10	50	100	15	0.4		5
		RM 2	1.2	100	-40 to +150	0.91	1.5	10	50	100	12	0.6	6	
		RO 2	1.2	80	-40 to +150	0.92	1.5	10	50	100	12	0.61		6
		RM 3	2.5	150	-40 to +150	0.95	2.5	10	100	150	10	1.0	7	
		RM 4	1.7 (3.0)	200	-40 to +150	0.95	3.0	10	50	100	8	1.2		8
	Center-tap	FMM-24S, R	10	100	-40 to +150	1.1	5.0	10	100	100	4.0	2.1	9	
		FMM-34S, R	20	120	-40 to +150	1.1	10	10	100	100	2.0	5.5		10
Bridge	RBV-404	4.0	80	-40 to +150	1.1	2.0	10	100	100	5.0	4.05	11	51	
	RBV-604	6.0	120	-40 to +150	1.05	3.0	10	100	100	3.0	6.45			12

### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)





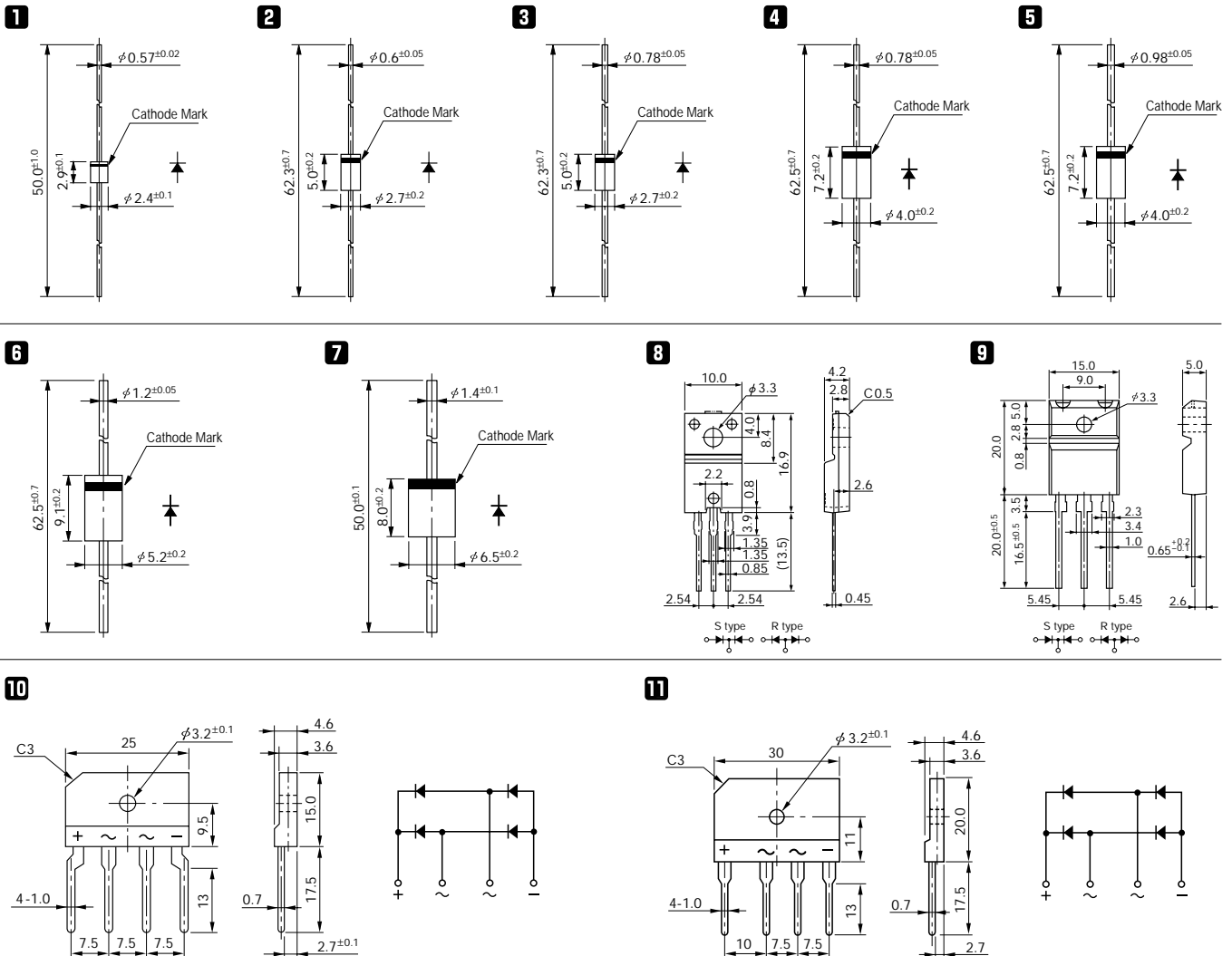
# Rectifier Diodes

## 600V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>R</sub> (μA)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown	
			( ) is with Heatsink	50Hz Half-cycle Sinewave Single Shot				I <sub>F</sub> (A)	V <sub>R</sub> = V <sub>RM</sub> max					V <sub>R</sub> = V <sub>RM</sub> max
600	Axial	AM01A	1.0	35	-40 to +150	0.98	1.0	10	50	100	22	0.13	1	48
		EM01A	1.0	45	-40 to +150	0.97	1.0	10	50	100	20	0.2	2	
		EM 1A	1.0	45	-40 to +150	0.97	1.0	10	50	100	17	0.3	3	
		RM 1A	1.0	50	-40 to +150	0.95	1.0	5	50	100	15	0.4	4	
		EM 2A	1.2	80	-40 to +150	0.92	1.2	10	50	100	17	0.3	3	49
		RM 11A	1.2	100	-40 to +150	0.92	1.5	10	50	100	15	0.4	4	
		RM 10A	1.2	150	-40 to +150	0.91	1.5	10	50	100	15	0.4	4	
		RM 2A	1.2	100	-40 to +150	0.91	1.5	10	50	100	12	0.6	5	50
		RO 2A	1.2	80	-40 to +150	0.92	1.5	10	50	100	12	0.61	6	
		RM 3A	2.5	150	-40 to +150	0.95	2.5	10	100	100	10	1.0	6	
		RM 4A	1.7 (3.0)	200	-40 to +150	0.95	3.0	10	50	100	8	1.2	7	50
	RM 4AM	1.8 (3.2)	350	-40 to +150	0.92	3.5	10	50	100	8	1.2	7		
	Center-tap	FMM-26S, R	10	100	-40 to +150	1.1	5.0	10	100	100	4.0	2.1	8	50
		FMM-36S, R	20	120	-40 to +150	1.1	10	10	100	100	2.0	5.5	9	51
	Bridge	RBV-406	4.0	80	-40 to +150	1.1	2.0	10	100	100	5.0	4.05	10	51
		RBV-406H	4.0	120	-40 to +150	0.92	2.0	10	100	100	5.0	4.05	10	52
		RBV-406M	4.0	120	-40 to +150	1.0	2.0	10	100	100	5.0	4.05	10	51
		RBV-606	6.0	120	-40 to +150	1.05	3.0	10	100	100	3.0	6.45	11	52
		RBV-606H	6.0	140	-40 to +150	1.05	3.0	10	200	100	3.0	6.45	11	
RBV-1306		13	80	-40 to +150	1.2	6.5	10	100	100	1.5	6.45	11	53	
RBV-1506S		15	150	-40 to +150	1.1	7.5	10	200	100	1.5	6.45	11		
RBV-1506		15	200	-40 to +150	1.05	7.5	50	200	100	1.5	6.45	11		
RBV-2506	25	350	-40 to +150	1.05	12.5	50	200	100	1.5	6.45	11			

### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



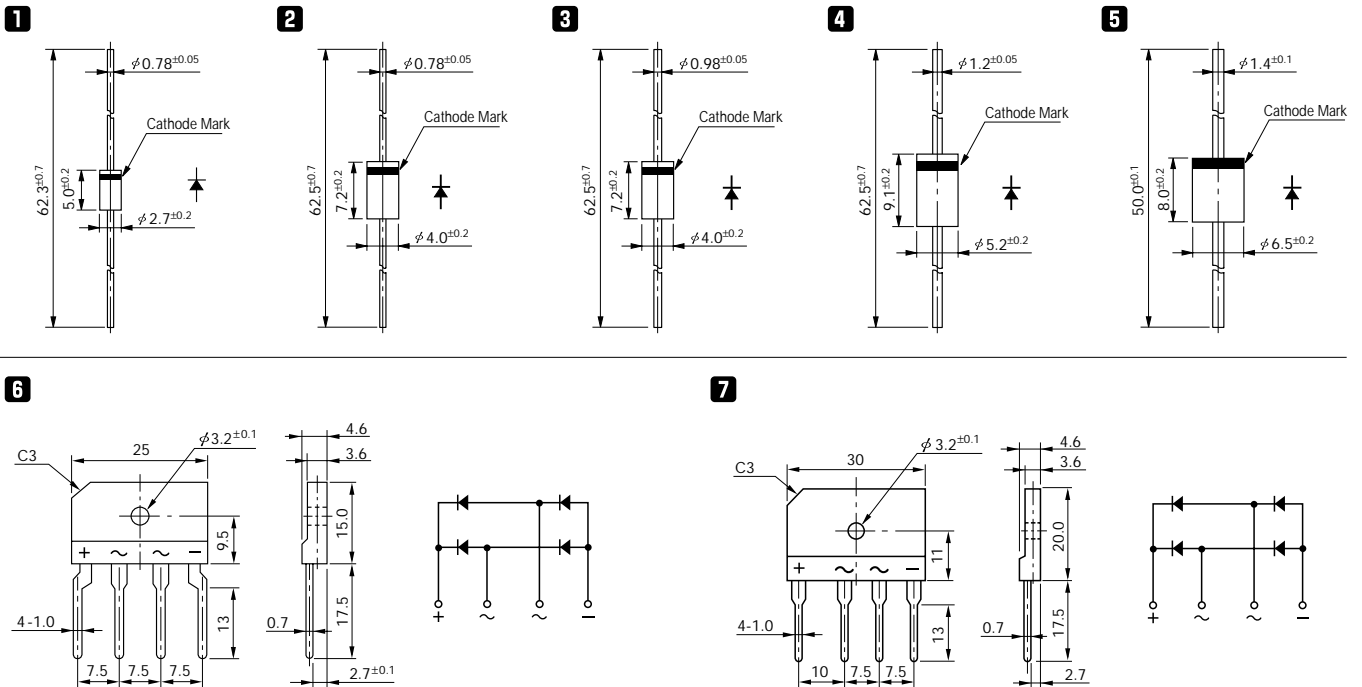
# Rectifier Diodes

## 800V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)		R <sub>th</sub> (j-l) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max				
800	Axial	RM 1B	0.8	40	-40 to +150	1.2	1.0	5	50	100	15	0.4	2	49
		EM 1B	1.0	35	-40 to +150	0.97	1.0	20	100	100	17	0.3	1	48
		EM 2B	1.2	80	-40 to +150	0.92	1.2	10	50	100	17	0.3	2	49
		RM 11B	1.2	100	-40 to +150	0.92	1.5	10	50	100	15	0.4		
		RM 10B	1.2	150	-40 to +150	0.91	1.5	10	50	100	15	0.4	3	50
		RM 2B	1.2	100	-40 to +150	0.91	1.5	10	50	100	12	0.6		
		RO 2B	1.2	80	-40 to +150	0.92	1.5	10	50	100	12	0.61		
		RM 3B	2.5	150	-40 to +150	0.95	2.5	10	100	150	10	1.0	4	50
		RM 4B	1.7 (3.0)	150	-40 to +150	0.95	3.0	10	50	100	8	1.2	5	50
	Bridge	RBV-408	4.0	100	-40 to +150	1.0	2.0	10	50	100	5.0	4.05	6	51
RBV-608		6.0	170	-40 to +150	0.95	3.0	10	100	100	3.0	6.45	7	52	

### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



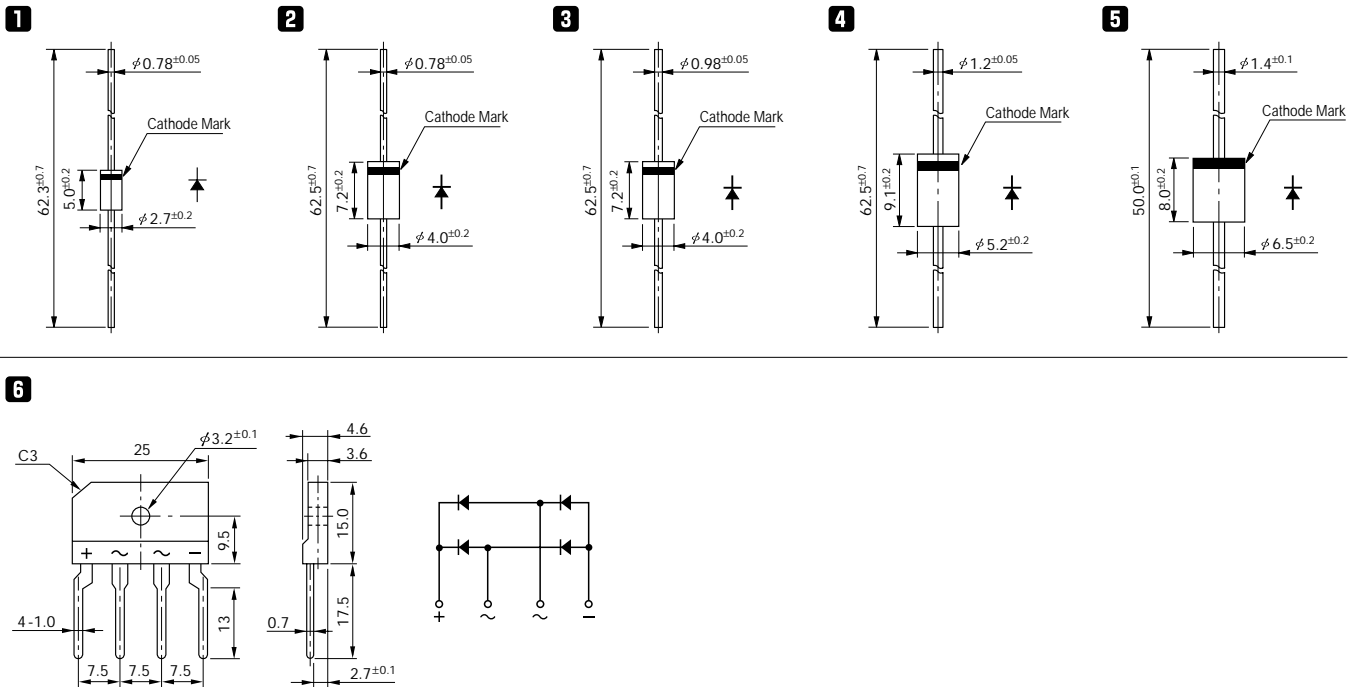
# Rectifier Diodes

# 1000V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max				
1000	Axial	RM 1C	0.8	40	-40 to +150	1.2	1.0	5	50	100	15	0.4	2	49
		EM 1C	1.0	35	-40 to +150	0.97	1.0	20	100	100	17	0.3	1	48
		RM 11C	1.2	100	-40 to +150	0.92	1.5	10	50	100	15	0.4	2	49
		RM 2C	1.2	100	-40 to +150	0.91	1.5	10	50	100	12	0.6	3	
		RO 2C	1.2	80	-40 to +150	0.92	1.5	10	50	100	12	0.61	3	
		RM 3C	2.0	150	-40 to +150	0.95	2.5	10	100	150	10	1.0	4	50
	RM 4C	1.7 (3.0)	150	-40 to +150	0.95	3.0	10	50	100	8	1.2	5		
Bridge	RBV-40C	4.0	100	-40 to +150	1.0	2.0	10	50	100	5.0	4.05	6	51	

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



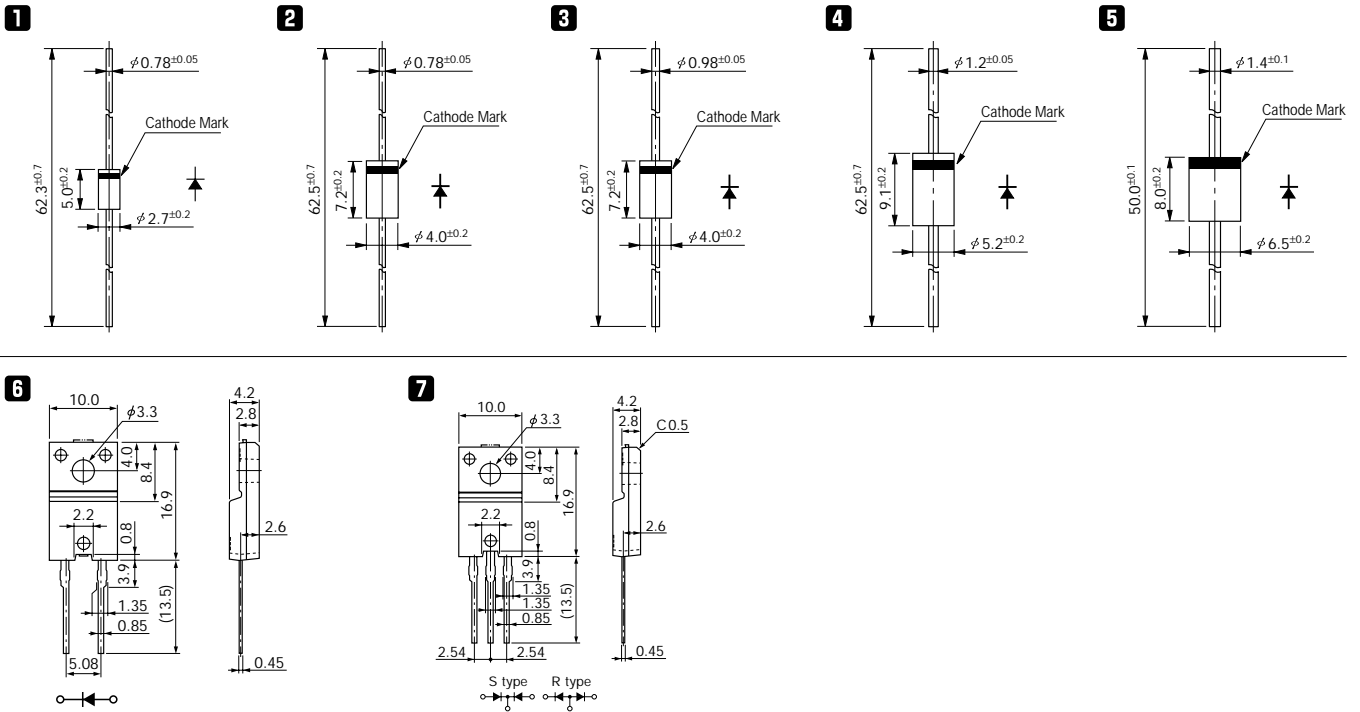
# Fast-Recovery Rectifier Diodes 100V

$t_{rr}^{(1)}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr}^{(2)}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

$V_{RM}$ (V)	Package	Part Number	$I_F$ (AV) (A) ( ) is with Heatsink	$I_{FSM}$ (A) 50Hz Half-Cycle Sine Wave Single Shot	$T_j$ (°C)	$T_{stg}$ (°C)	$V_F$ (V) max	$I_F$ (A)	$I_R$ ( $\mu$ A) $V_R = V_{RM}$ max	$I_R$ (H) ( $\mu$ A) $V_R = V_{RM}$ max	$T_a$ (°C)	$t_{rr}^{(1)}$ ( $\mu$ s)		$t_{rr}^{(2)}$ ( $\mu$ s)		Rth (j- $\ell$ ) Rth (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curves is shown
												$I_F/I_{FP}$ (mA)	$I_F/I_{FP}$ (mA)						
100	Axial	EU 2YX	1.2	25	-40 to +150	0.9	1.2	10	300	100	0.2	10/10	0.08	10/20	17	0.3	1	56	
		RU 2YX	1.5	30	-40 to +150	0.95	1.5	10	300	100	0.2	10/10	0.08	10/20	15	0.4	2	57	
		RU 3YX	2.0	50	-40 to +150	0.95	2.0	10	300	100	0.2	10/10	0.08	10/20	12	0.6	3	58	
		RU 30Y	1.5 (3.5)	80	-40 to +150	0.97	3.5	10	300	100	0.4	10/10	0.18	10/20	10	1.0	4		
		RU 4Y	2.0 (3.5)	70	-40 to +150	1.3	3.5	10	300	100	0.4	10/10	0.18	10/20	8	1.2	5	59	
		RU 4YX	2.2 (4.0)	70	-40 to +150	1.3	3.5	10	300	100	0.4	100/100	0.18	100/200	8	1.2			
	Frame-2Pin	FMU-G2YXS	10	100	-40 to +150	1.0	10	50	500	100	0.2	100/100	0.08	100/200	4.2	2.1	6	60	
Center-tap	FMU-21S, R	10	40	-40 to +150	1.5	5.0	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	7	60		

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

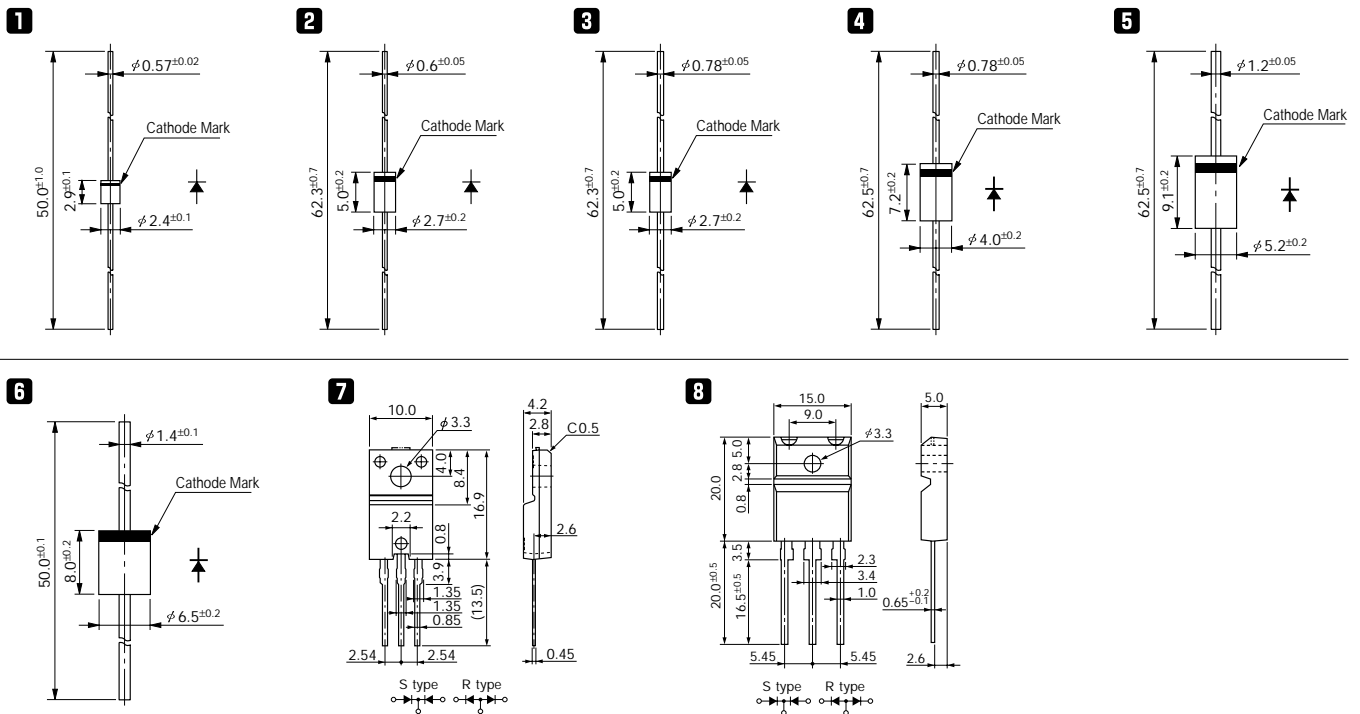


# Fast-Recovery Rectifier Diodes 200V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V)	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> <sup>①</sup> (μs)	I <sub>F</sub> /I <sub>FP</sub> (mA)	t <sub>rr</sub> <sup>②</sup> (μs)	I <sub>F</sub> /I <sub>FP</sub> (mA)	R <sub>th</sub> (j-ℓ)	R <sub>th</sub> (j-c)	Mass (g)	Fig. No.	Page where characteristic curve is shown
			( ) is with Heatsink	50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max						°C/W	°C/W			
200	Axial	EU01Z	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	20	0.2	<b>2</b>	54		
		EU 1Z	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	17	0.3	<b>3</b>	55		
		AU01Z	0.5	15	-40 to +150	1.7	0.5	10	150	100	0.4	10/10	0.18	10/20	22	0.13	<b>1</b>	54		
		AS01Z	0.6	20	-40 to +150	1.5	0.6	10	50	100	1.5	10/10	0.6	10/20	22	0.13	<b>1</b>	54		
		EH 1Z	0.6	30	-40 to +150	1.35	0.6	10	200	150	4	10/10	1.3	10/20	17	0.3	<b>3</b>	55		
		RF 1Z	0.6	15	-40 to +150	2.0	0.6	10	200	100	0.4	10/10	0.18	10/20	15	0.4	<b>4</b>	56		
		RH 1Z	0.6	35	-40 to +150	1.3	0.6	5	70	150	4	10/10	1.3	10/20	15	0.4	<b>4</b>	56		
		ES01Z	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.2	<b>2</b>	54		
		ES 1Z	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	17	0.3	<b>3</b>	55		
		AU02Z	0.8	25	-40 to +150	1.3	0.8	10	250	100	0.4	10/10	0.18	10/20	22	0.13	<b>1</b>	54		
		EU02Z	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	20	0.2	<b>2</b>	55		
		EU 2Z	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	17	0.3	<b>3</b>	55		
		RU 2Z	1.0	20	-40 to +150	1.5	1.0	10	300	100	0.4	10/10	0.18	10/20	15	0.4	<b>4</b>	57		
		RU 30Z	1.5 (3.5)	80	-40 to +150	0.97	3.5	10	300	100	0.4	10/10	0.18	10/20	10	1.0	<b>5</b>	58		
		RU 4Z	2.0 (3.5)	70	-40 to +150	1.3	3.5	10	300	100	0.4	10/10	0.18	10/20	8	1.2	<b>6</b>	59		
		Center-tap	FMU-12S, R	5.0	30	-40 to +150	1.5	2.5	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	<b>7</b>	60	
FMU-22S, R	10		40	-40 to +150	1.5	5.0	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	<b>7</b>	60			
FMU-32S, R	20		80	-40 to +150	1.5	10	50	500	100	0.4	100/100	0.18	100/200	2.0	5.5	<b>8</b>	61			

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)

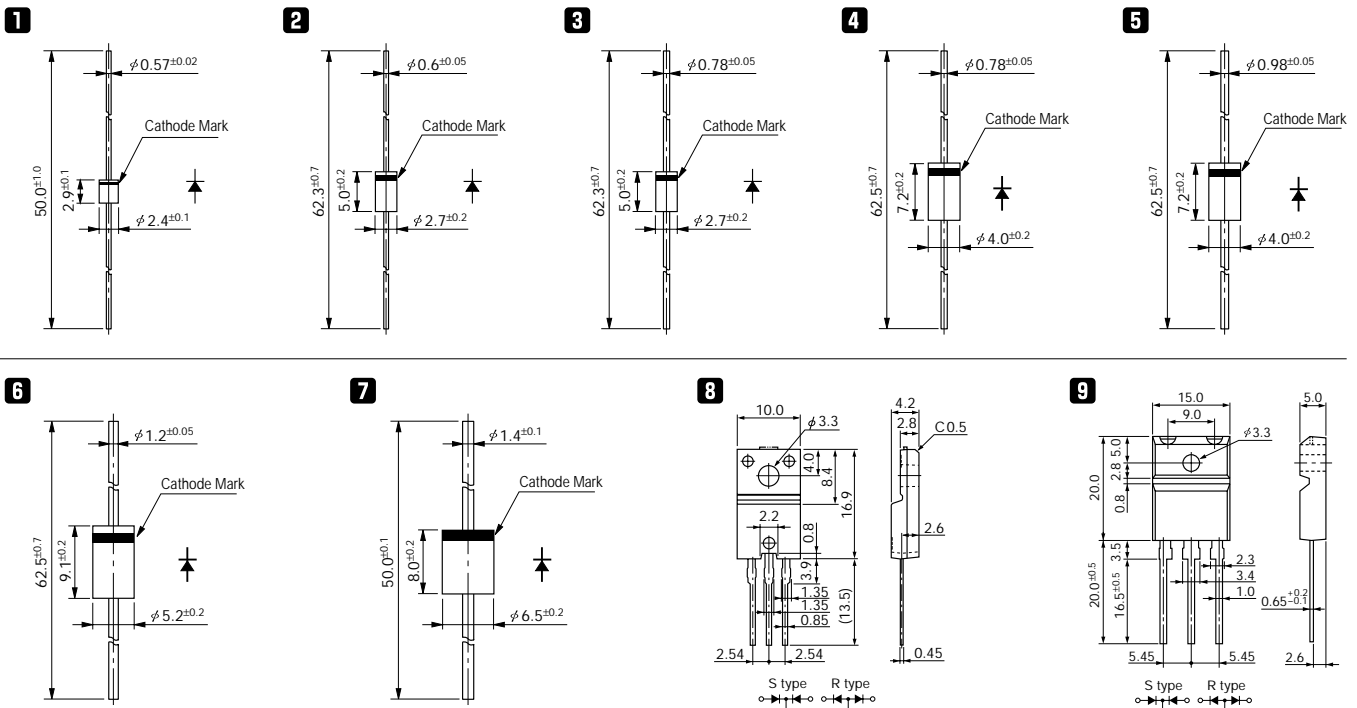


# Fast-Recovery Rectifier Diodes 400V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V)	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> ① (μs)		t <sub>rr</sub> ② (μs)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curves is shown
			( ) is with Heatsink	50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
400	Axial	EU01	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	20	0.2	2	54	
		EU 1	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	17	0.3	3	55	
		RU 1	0.25	15	-40 to +150	2.5	0.25	10	200	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		AU01	0.5	15	-40 to +150	1.7	0.5	10	150	100	0.4	10/10	0.18	10/20	22	0.13	1	54	
		AS01	0.6	20	-40 to +150	1.5	0.6	10	50	100	1.5	10/10	0.6	10/20	22	0.13			
		EH 1	0.6	30	-40 to +150	1.35	0.6	10	200	150	4	10/10	1.3	10/20	17	0.3	3	55	
		RF 1	0.6	15	-40 to +150	2.0	0.6	10	200	100	0.4	10/10	0.18	10/20	15	0.4	4	56	
		RH 1	0.6	35	-40 to +150	1.3	0.6	5	70	150	4	10/10	1.3	10/20	15	0.4			
		ES 1	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.2	2	55	
		ES01	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.2	2	54	
		AU02	0.8	25	-40 to +150	1.3	0.8	10	250	100	0.4	10/10	0.18	10/20	22	0.13	1		
		EU02	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	20	0.2	2	55	
		EU 2	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	17	0.3	3		
		RU 2M	1.1	20	-40 to +150	1.2	1.1	10	300	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		RU 3	1.5	20	-40 to +150	1.5	1.5	10	400	100	0.4	10/10	0.18	10/20	12	0.6	5		
		RU 3M	1.5	50	-40 to +150	1.1	1.5	10	350	100	0.4	10/10	0.18	10/20	12	0.6	5	58	
		RU 30	2.0	200	-40 to +150	0.95	2.0	10	300	100	0.4	100/100	0.18	100/200	10	1.0	6		
		RU 31	3.0	150	-40 to +150	1.2	3.0	50	500	100		100/100	0.18	100/200	10	1.0	6		
	RU 4	1.5 (3.0)	50	-40 to +150	1.5	3.0	10	300	100	0.4	10/10	0.18	10/20	8	1.2	7	59		
	RU 4M	2.0 (3.5)	70	-40 to +150	1.3	3.5	10	300	100	0.4	100/100	0.18	100/200	8	1.2				
Center-tap	FMU-14S, R	5.0	30	-40 to +150	1.5	2.5	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	8	60		
	FMU-24S, R	10	40	-40 to +150	1.5	5.0	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	8			
	FMU-34S, R	20	80	-40 to +150	1.5	10	50	500	100	0.4	100/100	0.18	100/200	2.0	5.5	9	61		

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)

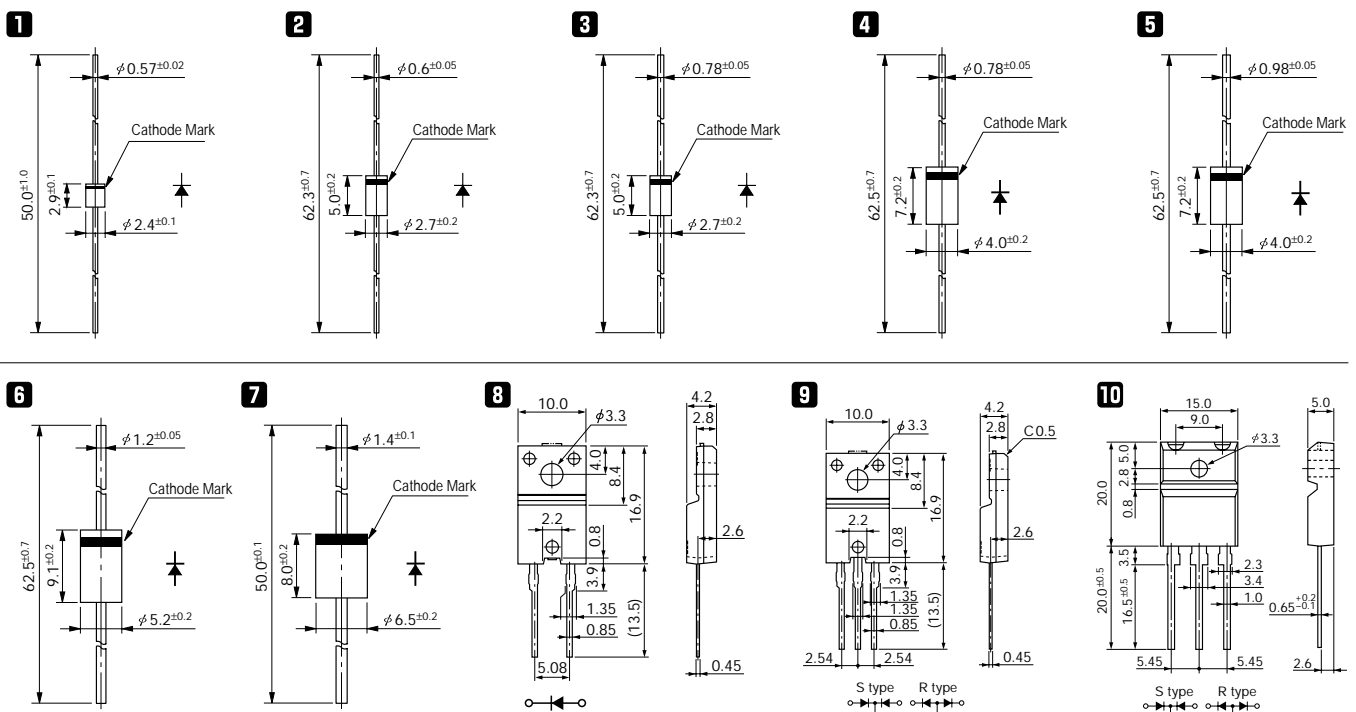


# Fast-Recovery Rectifier Diodes 600V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A) 50Hz Half-cycle Sine-wave Single Shot	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> ① (μs)		t <sub>rr</sub> ② (μs)		R <sub>th(j-ℓ)</sub> R <sub>th(j-c)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curves is shown
									V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
600	Axial	EU01A	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	20	0.2	2	54	
		EU 1A	0.25	15	-40 to +150	2.5	0.25	10	150	100	0.4	10/10	0.18	10/20	17	0.3	1	55	
		RU 1A	0.25	15	-40 to +150	2.5	0.25	10	200	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		AU01A	0.5	15	-40 to +150	1.7	0.5	10	150	100	0.4	10/10	0.18	10/20	22	0.13	1	54	
		AS01A	0.6	20	-40 to +150	1.5	0.6	10	50	100	1.5	10/10	0.6	10/20	22	0.13	1	54	
		EH 1A	0.6	30	-40 to +150	1.35	0.6	10	200	150	4	10/10	1.3	10/20	17	0.3	3	55	
		RF 1A	0.6	15	-40 to +150	2.0	0.6	10	200	100	0.4	10/10	0.18	10/20	15	0.4	4	56	
		RH 1A	0.6	35	-40 to +150	1.3	0.6	5	70	150	4	10/10	1.3	10/20	15	0.4	4	56	
		ES 1A	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.2	2	55	
		ES01A	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.2	2	54	
		RS 1A	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.4	4	56	
		AU02A	0.8	25	-40 to +150	1.3	0.8	10	250	100	0.4	10/10	0.18	10/20	22	0.13	1	54	
		EU02A	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	20	0.2	2	55	
		EU 2A	1.0	15	-40 to +150	1.4	1.0	10	300	100	0.4	10/10	0.18	10/20	17	0.3	3	55	
		RU 2	1.0	20	-40 to +150	1.5	1.0	10	300	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		RU 2AM	1.1	20	-40 to +150	1.2	1.1	10	300	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		RU 20A	1.5	50	-40 to +150	1.1	1.5	10	350	100	0.4	10/10	0.18	10/20	15	0.4	4	57	
		RU 3A	1.5	20	-40 to +150	1.5	1.5	10	400	100	0.4	10/10	0.18	10/20	12	0.6	5	58	
		RU 3AM	1.5	50	-40 to +150	1.1	1.5	10	350	100	0.4	10/10	0.18	10/20	12	0.6	5	58	
		RU 30A	2.0	200	-40 to +150	0.95	2.0	10	300	100	0.4	100/100	0.18	100/200	10	1.0	6	58	
		RU 31A	3.0	150	-40 to +150	1.2	3.0	50	500	100	0.4	100/100	0.18	100/200	10	1.0	6	58	
		RU 4A	1.5 (3.0)	50	-40 to +150	1.5	3.0	10	300	100	0.4	10/10	0.18	10/20	8	1.2	7	59	
		RU 4AM	2.0 (3.5)	70	-40 to +150	1.3	3.5	10	300	100	0.4	100/100	0.18	100/200	8	1.2	7	59	
		Frame-2Pin	FMU-G16S	5.0	30	-40 to +150	1.25	5.0	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	8	60
FMU-G26S	10		40	-40 to +150	1.35	10	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	8	60		
Center-tap	FMU-16S, R	5.0	30	-40 to +150	1.5	2.5	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	9	60		
	FMU-26S, R	10	40	-40 to +150	1.5	5.0	50	500	100	0.4	100/100	0.18	100/200	4.0	2.1	9	60		
	FMU-36S, R	20	80	-40 to +150	1.5	10	50	500	100	0.4	100/100	0.18	100/200	2.0	5.5	10	61		

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)



# Fast-Recovery Rectifier Diodes 800V

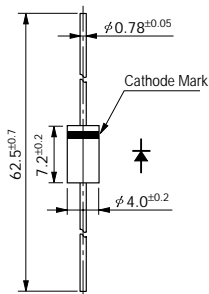
$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> ① (μs)	I <sub>F</sub> /I <sub>FP</sub> (mA)	t <sub>rr</sub> ② (μs)	I <sub>F</sub> /I <sub>FP</sub> (mA)	R <sub>th</sub> (j-ℓ) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown	
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max										
800	Axial	RU 1B	0.25	15	-40 to +150	2.5	0.25	10	200	100	0.4	10/10	0.18	10/20	15	0.4		57		
		RF 1B	0.6	15	-40 to +150	2.0	0.6	10	200	100	0.4	10/10	0.18	10/20	15	0.4				
		RH 1B	0.6	35	-40 to +150	1.3	0.6	5	70	150	4	10/10	1.3	10/20	15	0.4	<b>1</b>	56		
		RS 1B	0.7	30	-40 to +150	2.5	0.8	10	200	100	1.5	10/10	0.6	10/20	20	0.4				
		RU 2B	1.0	20	-40 to +150	1.5	1.0	10	300	100	0.4	10/10	0.18	10/20	15	0.4			57	
		RU 3B	1.1	20	-40 to +150	1.5	1.0	10	400	100	0.4	10/10	0.18	10/20	12	0.6	<b>2</b>	58		
		RU 4B	1.5 (3.0)	50	-40 to +150	1.6	3.0	10	500	100	0.4	10/10	0.18	10/20	8	1.2	<b>3</b>	59		

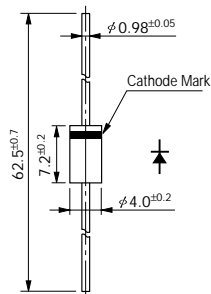
## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

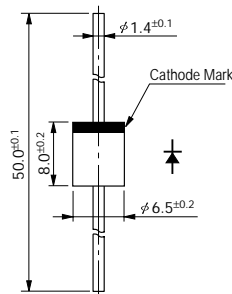
**1**



**2**



**3**





# Fast-Recovery Rectifier Diodes 1000V

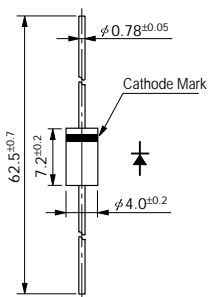
$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> ① (μs)		t <sub>rr</sub> ② (μs)		R <sub>th</sub> (j-ℓ) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
1000	Axial	RU 1C	0.2	15	-40 to +150	3.0	0.25	10	200	100	0.4	10/10	0.18	10/20	15	0.4	1	57	
		RH 1C	0.6	35	-40 to +150	1.3	0.6	5	70	150	4	10/10	1.3	10/20	15	0.4		56	
		RU 2C	0.8	20	-40 to +150	1.5	1.0	10	300	100	0.4	10/10	0.18	10/20	15	0.4	57		
		RU 3C	1.5	20	-40 to +150	2.5	1.5	10	400	100	0.4	10/10	0.18	10/20	12	0.6	2	58	
		RU 4C	1.5 (2.5)	50	-40 to +150	1.6	3.0	50	500	100	0.4	100/100	0.18	100/200	8	1.2	3	59	

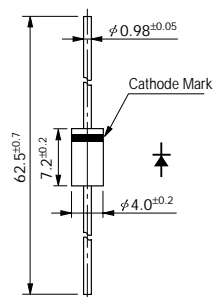
## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

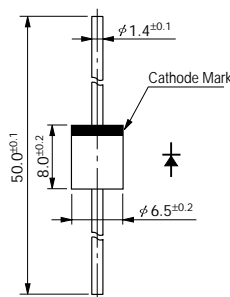
1



2



3

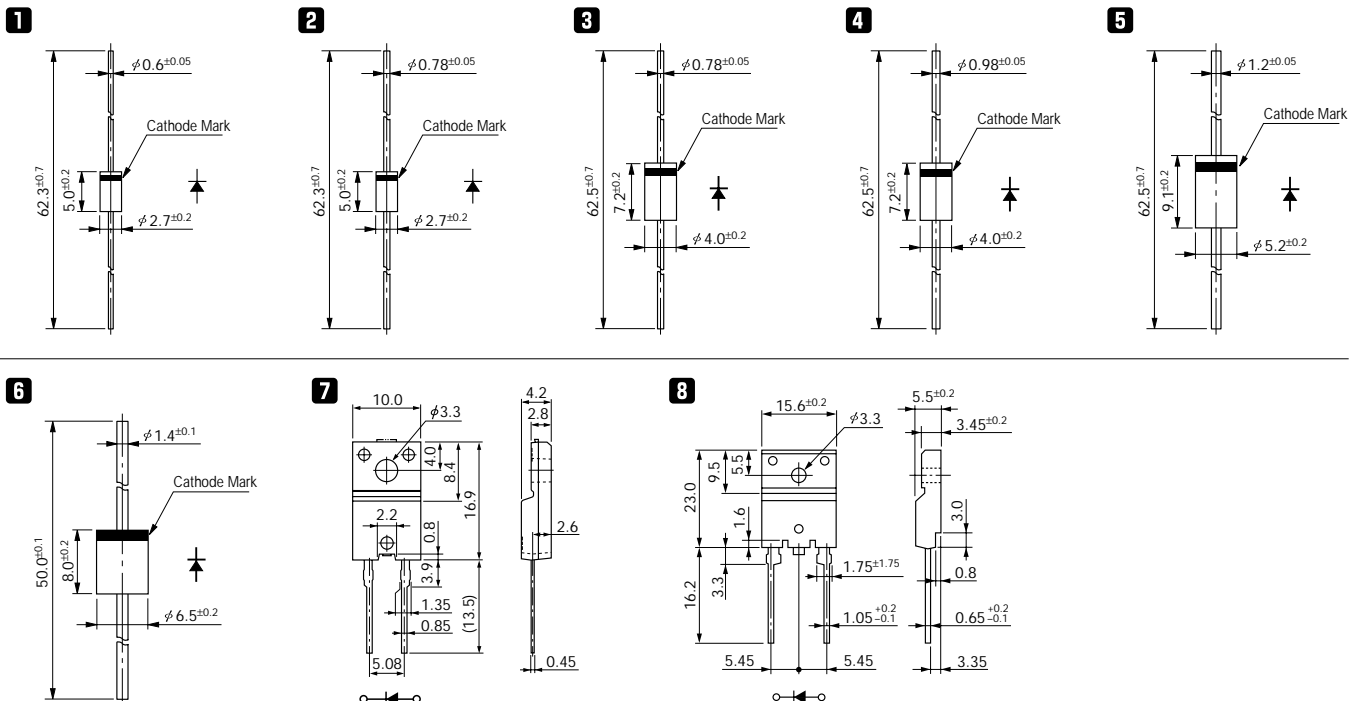


# Fast-Recovery Rectifier Diodes 1300V and over

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A) ( ) is with Heatsink	I <sub>FSM</sub> (A) 50Hz Half-cycle Sine-wave Single Shot	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (μA)	T <sub>a</sub> (°C)	t <sub>rr</sub> (μs)		R <sub>th(j-ℓ)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown	
									V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)					
1300	Axial	RH 2D	1.0	60	-40 to +150	1.0	1.0	10	500	100	4	10/10	1.3	100/200	12	0.6	<b>4</b>	93
		RU 4D	1.2 (1.5)	50	-40 to +150	1.8	1.5	50	500	100	0.4	500/500	0.18	500/1000	8	1.2	<b>6</b>	94
		RU 4DS	1.5 (2.5)	50	-40 to +150	1.8	3.0	50	500	100	0.4	500/500	0.18	500/1000	8	1.2	<b>6</b>	94
1500	Axial	ES01F	0.5	20	-40 to +150	2.0	0.5	10	200	100	1.5	10/10	0.6	10/20	20	0.2	<b>1</b>	54
		ES 1F	0.5	20	-40 to +150	2.0	0.5	10	200	100	1.5	10/10	0.6	10/20	17	0.3	<b>2</b>	55
		RH 10F	0.8	60	-40 to +150	1.0	1.0	10	500	100	4	10/10	1.3	100/200	15	0.4	<b>3</b>	93
		RH 2F	1.0	60	-40 to +150	1.0	1.0	10	500	100	4	10/10	1.3	100/200	12	0.6	<b>4</b>	93
		RS 3FS	2.0	50	-40 to +150	1.1	3.0	50	500	100	2	100/100	0.8	100/200	10	1.0	<b>5</b>	93
		RP 3F	2.0	50	-40 to +150	1.7	2.0	50	500	100	0.7	500/500	0.3	500/1000	10	1.0	<b>5</b>	93
		RH 3F	2.5	50	-40 to +150	1.3	2.5	50	500	100	4	100/100	1.3	100/200	10	1.0	<b>5</b>	93
		RH 4F	2.5	50	-40 to +150	1.5	2.5	10	350	100	4	100/100	1.3	100/200	8	1.2	<b>6</b>	94
	RS 4FS	1.5 (2.5)	50	-40 to +150	1.5	3.0	50	500	100	1	100/100	0.4	100/200	8	1.2	<b>6</b>	94	
	Frame-2Pin	FMP-G2FS	5.0	50	-40 to +150	2.0	5.0	50	500	100	0.7	500/500	0.3	500/1000	4.0	2.1	<b>7</b>	95
		FMQ-G1FS	5.0	50	-40 to +150	5.0	5.0	50	500	150	0.7	500/500	0.3	500/1000	4.0	2.1	<b>7</b>	95
		FMQ-G2FS	10	50	-40 to +150	2.8	10	50	500	150 (Tj)	0.5	500/500	0.2	500/1000	4.0	2.1	<b>7</b>	96
		FMU-G2FS	10	50	-40 to +150	1.6	10	50	6000	150 (Tj)	0.6	500/500	0.25	500/1000	4.0	2.1	<b>7</b>	95
FMQ-G2FLS		10	50	-40 to +150	1.8	10	50	500	150 (Tj)	1.2	500/500	0.4	500/1000	4.0	2.1	<b>7</b>	95	
FMQ-G2FMS		10	50	-40 to +150	2.4	10	50	500	150	0.5	500/500	0.25	500/1000	4.0	2.1	<b>7</b>	95	
FMQ-G5FMS		10	50	-40 to +150	2.4	10	50	500	100	0.5	500/500	0.2	500/1000	2	6.5	<b>8</b>	96	
FMV-G5FS	10	50	-40 to +150	1.5	10	50	700	100	2.0	500/500	0.8	500/1000	2	6.5	<b>8</b>	97		
1600	Axial	RH 3G	2.5	50	-40 to +150	1.3	2.5	50	500	100	4	100/100	1.3	100/200	10	1.0	<b>5</b>	93
1700	Frame-2Pin	FMQ-G5GS	10	50	-40 to +150	2.7	10	100	500	100	0.5	500/500	0.2	500/1000	2	6.5	<b>8</b>	96
1800	Frame-2Pin	FMP-G5HS	8.0	50	-40 to +150	2.0	8	25	250	100	1.0	500/500	0.4	500/1000	2	6.5	<b>8</b>	96
		FMR-G5HS	10	50	-40 to +150	1.6	10	20	200	100	1.8	500/500	0.7	500/1000	2	6.5	<b>8</b>	96
2000	Axial	RC 2	0.2	20	-40 to +150	2.0	0.2	10	300	100	4.0	10/10	1.3	10/20	15	0.4	<b>3</b>	56

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)

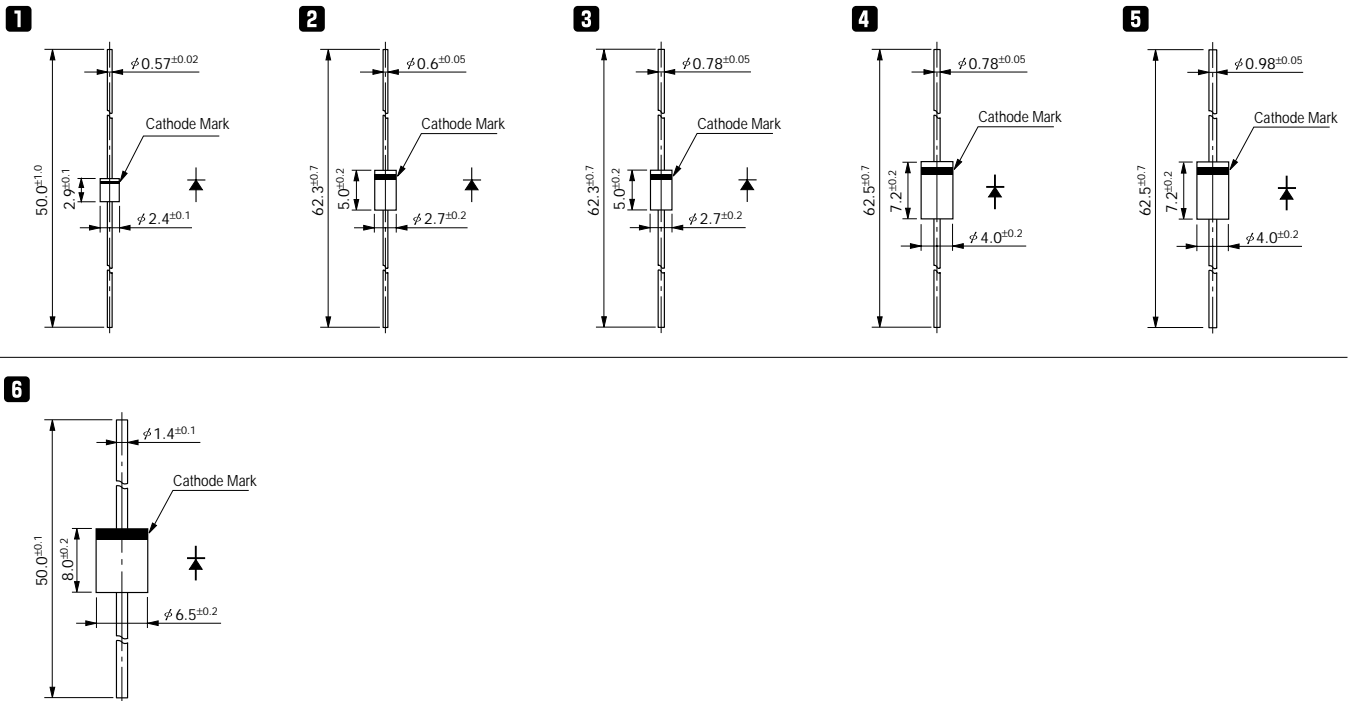


# Ultra-Fast-Recovery Rectifier Diodes 70V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

$V_{RM}$ (V)	Package	Part Number	$I_F$ (AV) (A)	$I_{FSM}$ (A)	$T_j$ (°C)	$T_{stg}$ (°C)	$V_F$ (V) max	$I_F$ (A)	$I_R$ ( $\mu$ A)	$I_R$ (H) (mA)	$T_a$ (°C)	$t_{rr} \textcircled{1}$ (ns)	$I_F/I_{FP}$ (mA)	$t_{rr} \textcircled{2}$ (ns)	$I_F/I_{FP}$ (mA)	Rth (j- $\ell$ ) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot				$V_R = V_{RM}$ max	$V_R = V_{RM}$ max	$I_F/I_{FP}$ (mA)		$I_F/I_{FP}$ (mA)							
70	Axial	AG01Y	1.0	25	-40 to +150	1.2	1.0	100	0.5	100	100	100/100	50	100/200	22	0.13	<b>1</b>	63	
		EG01Y	1.0	30	-40 to +150	1.2	1.0	100	0.5	100	100	100/100	50	100/200	20	0.2	<b>2</b>		
		EG 1Y	1.1	30	-40 to +150	1.2	1.1	100	0.5	100	100	100/100	50	100/200	17	0.3	<b>3</b>		
		RG 10Y	1.5	50	-40 to +150	1.1	1.5	500	2.5	100	100	100/100	50	100/200	15	0.4	<b>4</b>		
		RG 2Y	1.5	50	-40 to +150	1.1	1.5	500	2.5	100	100	100/100	50	100/200	12	0.6	<b>5</b>		
		RG 4Y	2.0 (3.5)	100	-40 to +150	1.3	3.5	1000	5	100	100	100/100	50	100/200	8	1.2	<b>6</b>		

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)



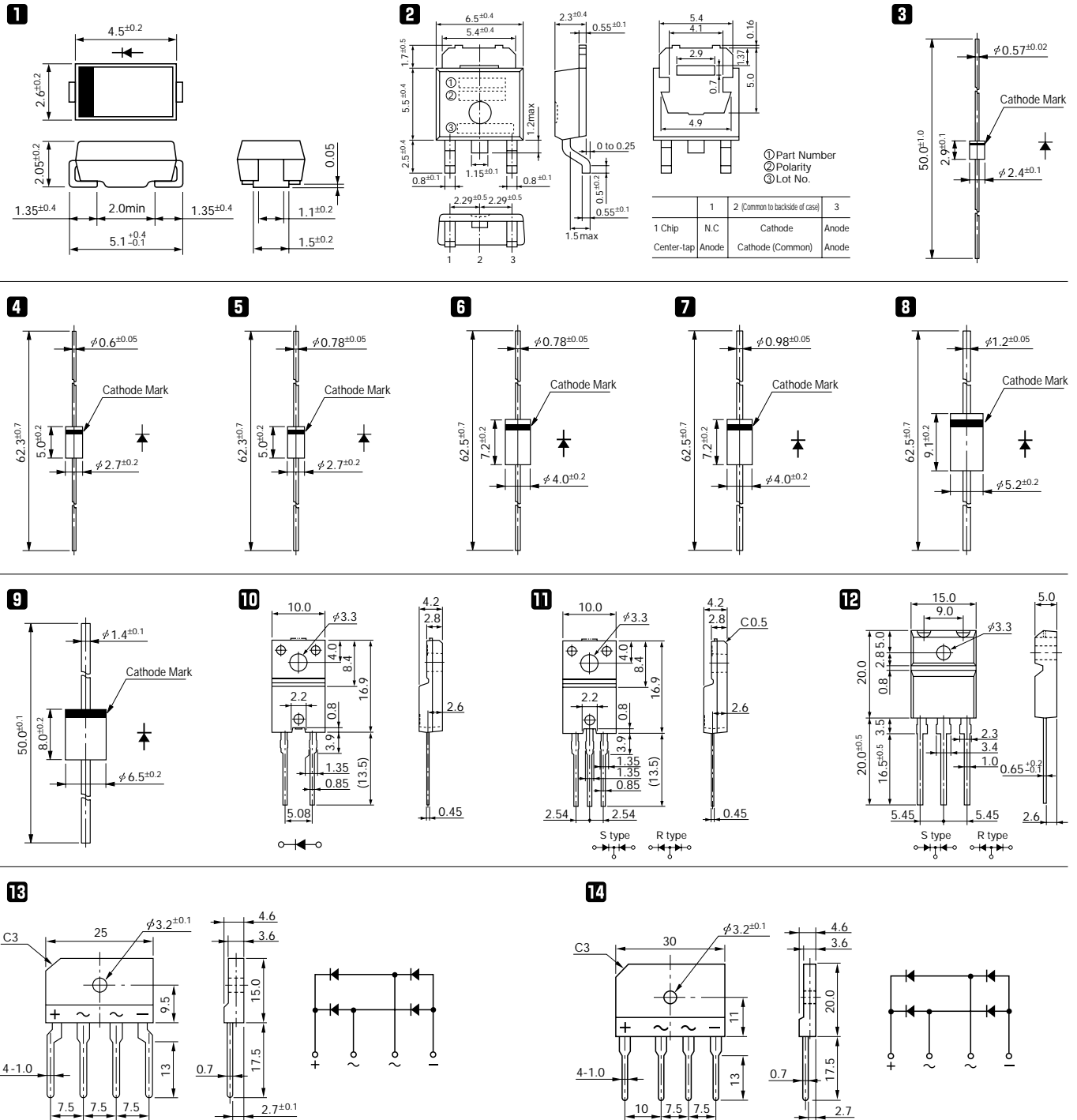
# Ultra-Fast-Recovery Rectifier Diodes 200V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (mA)	T <sub>a</sub> (°C)	t <sub>rr</sub> ① (ns)		t <sub>rr</sub> ② (ns)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
200	Surface Mount	SFPL-52	0.9	25	-40 to +150	0.98	1.0	10	1	150 (Tj)	50	100/100	35	100/200	20	0.072	1	62	
		SFPL-62	1.0	25	-40 to +150	0.98	1.0	10	1	150 (Tj)	50	100/100	35	100/200	20	0.072			
		SFPX-62	1.5	30	-40 to +150	0.98	1.5	10	2	150 (Tj)	30	100/100	25	100/200	20	0.072	2	63	
		SPX-G32S	3.0	50	-40 to +150	0.98	3.0	50	10	100	30	100/100	25	100/200	5.0	0.41			
		SPX-62S	6.0	80	-40 to +150	0.98	3.0	50	10	100	30	100/100	25	100/200	5.0	0.41			
	Axial	AG01Z	0.7	15	-40 to +150	1.8	0.7	100	0.5	100	100	100/100	50	100/200	22	0.13	3	63	
		EG01Z	0.7	15	-40 to +150	1.9	0.7	50	0.3	100	100	100/100	50	100/200	20	0.2	4		
		EG 1Z	0.8	15	-40 to +150	1.7	0.8	50	0.3	100	100	100/100	50	100/200	17	0.3	5	64	
		AL01Z	1.0	25	-40 to +150	0.98	1.0	100	0.5	100	50	100/100	35	100/200	22	0.13	3	63	
		EN01Z	1.0	50	-40 to +150	0.92	1.0	10	2	150 (Tj)	100	100/100	50	100/200	20	0.2	4	64	
		RG 10Z	1.2	50	-40 to +150	1.5	1.2	500	2.5	100	100	100/100	50	100/200	15	0.4	6	65	
		RG 2Z	1.2	50	-40 to +150	1.5	1.5	500	2.5	100	100	100/100	50	100/200	12	0.6	7	67	
		EL02Z	1.5	25	-40 to +150	0.98	1.5	50	0.1	100	40	100/100	30	100/200	20	0.2	4	64	
		EL 1Z	1.5	20	-40 to +150	0.98	1.5	100	0.5	100	100	100/100	50	100/200	17	0.3	5	65	
		RN 1Z	1.5	60	-40 to +150	0.92	1.5	20	3	150 (Tj)	100	100/100	50	100/200	15	0.4	6	66	
		RL 10Z	2.0	30	-40 to +150	0.98	2.0	50	0.1	100	50	100/100	35	100/200	15	0.4			
		RL 2Z	2.0	30	-40 to +150	0.98	2.0	100	0.5	100	50	100/100	35	100/200	12	0.6	7	67	
		RN 2Z	2.0	70	-40 to +150	0.92	2.0	50	4	150 (Tj)	100	100/100	50	100/200	12	0.6			
		RN 3Z	3.0	80	-40 to +150	0.92	3.0	50	6	150 (Tj)	100	100/100	50	100/200	10	1.0	8	69	
		RX 3Z	3.0	80	-40 to +150	0.98	3.0	50	10	100	30	100/100	25	100/200	10	1.0			
		RG 4Z	1.0 (3.0)	80	-40 to +150	1.7	3.0	1000	5	100	100	100/100	35	100/200	8	1.2	9	70	
		RL 3Z	3.5	80	-40 to +150	0.95	3.5	50	0.2	100	50	100/100	35	100/200	10	1.0	8		
		RL 4Z	3.5	80	-40 to +150	0.95	3.5	150	0.5	100	50	100/100	50	100/200	8	1.2	9		
	RN 4Z	3.5	120	-40 to +150	0.92	3.5	50	6	150 (Tj)	100	100/100	50	100/200	8	1.2	9	70		
	Frame-2Pin	FML-G12S	5.0	65	-40 to +150	0.98	5.0	250	1	100	40	100/100	30	100/200	4.0	2.1	10	71	
		FMN-G12S	5.0	100	-40 to +150	0.92	5.0	100	10	100	100	100/100	50	100/200	4.0	2.1			
		FMP-G12S	5.0	65	-40 to +150	1.15	5.0	50	0.5	100	150	100/100	70	100/200	4.0	2.1			
		FMX-G12S	5.0	65	-40 to +150	0.98	5.0	100	20	100	30	100/100	25	100/200	4.0	2.1			
		FML-G22S	10.0	150	-40 to +150	0.98	10.0	500	2	100	40	500/500	30	500/1000	4.0	2.1			
FMX-G22S		10.0	150	-40 to +150	0.98	10.0	200	50	100	30	500/500	25	500/1000	4.0	2.1				
Center-tap	FMG-12S, R	5.0	35	-40 to +150	1.8	2.5	500	1.5	100	100	100/100	50	100/200	4.0	2.1	11	73		
	FML-12S	5.0	35	-40 to +150	0.98	2.5	150	0.5	100	40	100/100	30	100/200	4.0	2.1		74		
	FMX-12S	5.0	35	-40 to +150	0.98	2.5	50	10	100	30	100/100	25	100/200	4.0	2.1		76		
	FMG-22S, R	10.0	65	-40 to +150	1.8	5.0	500	1.5	100	100	100/100	50	100/200	4.0	2.1	11	74		
	FML-22S	10.0	65	-40 to +150	0.98	5.0	250	1	100	40	100/100	30	100/200	4.0	2.1		75		
	FMX-22S	10.0	65	-40 to +150	0.98	5.0	100	20	100	30	100/100	25	100/200	4.0	2.1		76		
	FMX-22SL	15.0	100	-40 to +150	0.98	7.5	150	30	100	30	500/500	25	500/1000	4.0	2.1				
	FMG-32S, R	20.0	150	-40 to +150	1.8	10.0	1000	5	100	100	100/100	50	100/200	2.0	5.5	12		77	
	FML-32S	20.0	150	-40 to +150	0.98	10.0	600	2	100	40	100/100	30	100/200	2.0	5.5				
FMX-32S	20.0	150	-40 to +150	0.98	10.0	200	50	100	30	500/500	25	500/1000	2.0	5.5					
Bridge	RBV-402L	4.0	80	-40 to +150	0.98	2.0	50	0.1	100	40	100/100	30	100/200	5.0	4.05	13	78		
	RBV-602L	6.0	100	-40 to +150	1.0	3.0	250	1	100	50	100/100	35	100/200	3.0	6.45	14			

# Ultra-Fast-Recovery Rectifier Diodes 200V

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)



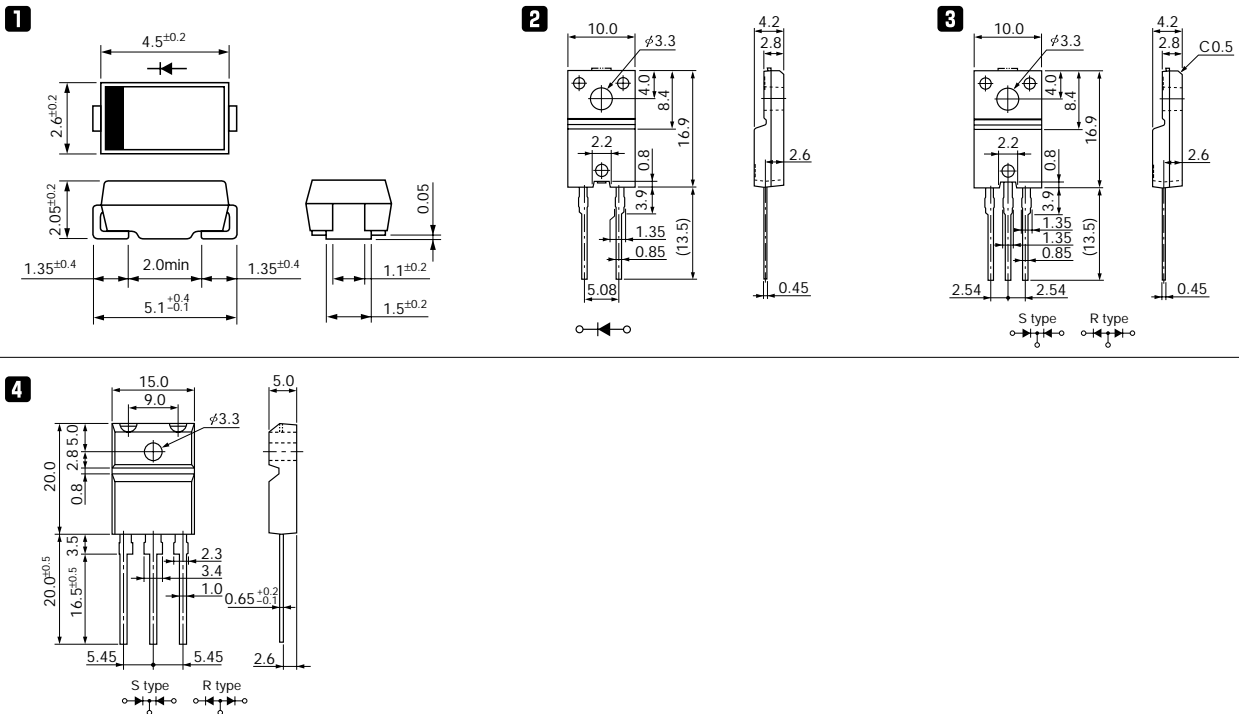
# Ultra-Fast-Recovery Rectifier Diodes 300V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA) V <sub>R</sub> =V <sub>RM</sub> max	I <sub>R</sub> (H) (mA) V <sub>R</sub> =V <sub>RM</sub> max	T <sub>a</sub> (°C)	t <sub>rr</sub> <sup>①</sup> (ns)		t <sub>rr</sub> <sup>②</sup> (ns)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot								I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
300	Surface Mount	SFPX-63	2.0	20	-40 to +150	1.3	2	50	3	150	30	100/100	25	100/200	20	0.07	<b>1</b>	—	
	Frame-2Pin	FML-G13S	5.0	70	-40 to +150	1.3	5.0	100	0.2	100	50	100/100	35	100/200	4.0	2.1	<b>2</b>	71	
	Center-tap	FMG-13S, R	5.0	35	-40 to +150	1.8	2.5	500	1.5	100	100	100/100	50	100/200	4.0	2.1	<b>3</b>	73	
		FML-13S	5.0	40	-40 to +150	1.3	2.5	50	0.1	100	50	100/100	35	100/200	4.0	2.1		75	
		FMG-23S, R	10.0	65	-40 to +150	1.8	5.0	500	1.5	100	100	100/100	50	100/200	4.0	2.1		74	
		FML-23S	10.0	70	-40 to +150	1.3	5.0	100	0.5	100	50	100/100	35	100/200	4.0	2.1	75		
		FMX-23S	10.0	65	-40 to +150	1.3	5.0	50	15	150	30	100/100	25	100/200	4.0	2.1	—		
		FMG-33S, R	20.0	150	-40 to +150	1.8	10.0	1000	5	100	100	100/100	50	100/200	2.0	5.5	76		
		FML-33S	20.0	100	-40 to +150	1.3	10.0	200	1	100	50	500/500	35	500/1000	2.0	5.5	<b>4</b>	77	
FMX-33S	20.0	100	-40 to +150	1.3	10.0	100	30	150	30	500/500	25	500/1000	2.0	5.5	—				

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

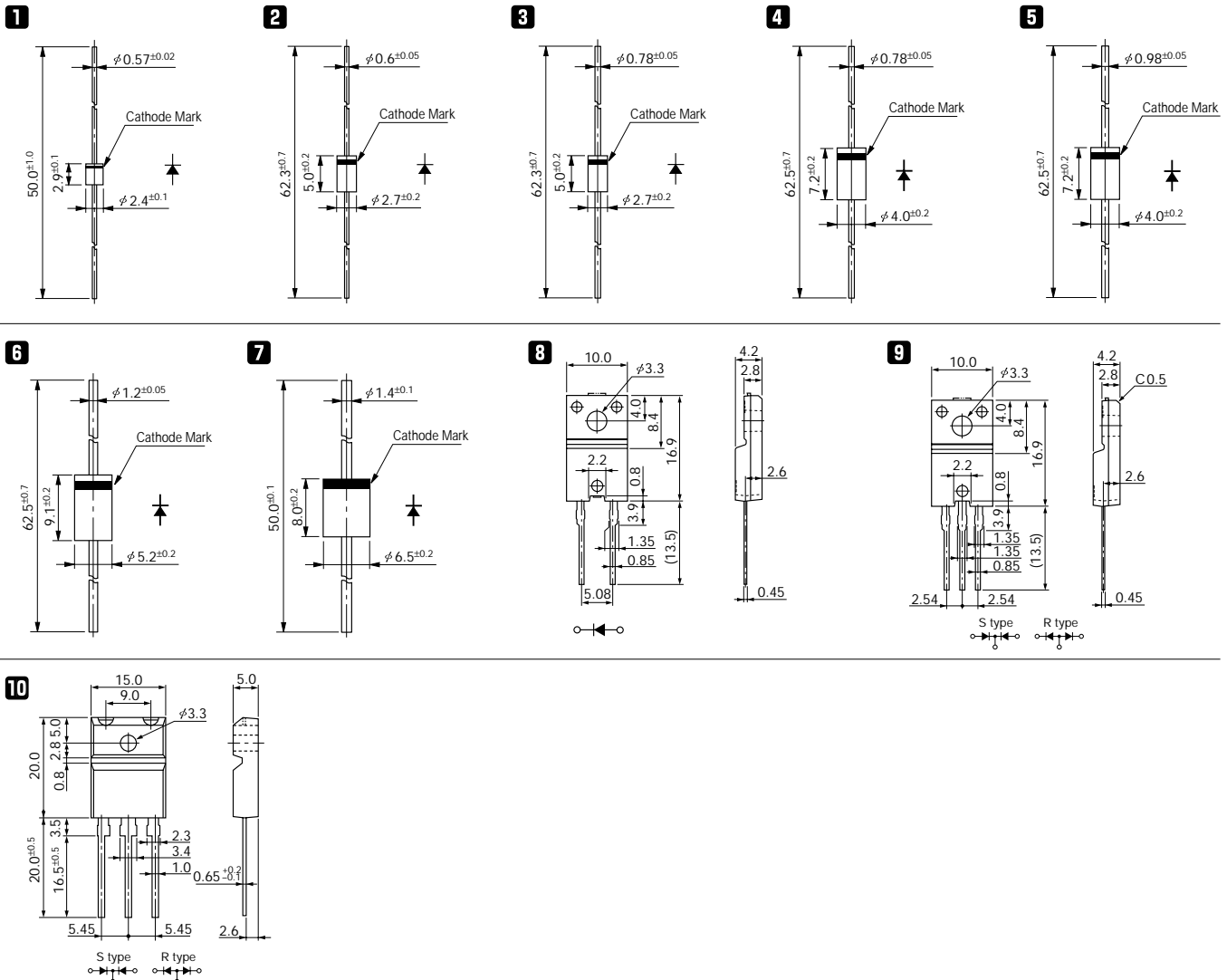


# Ultra-Fast-Recovery Rectifier Diodes 400V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

VRM (V)	Package	Part Number	IF (AV) (A)	IFSM (A)	Tj (°C)	Tstg (°C)	VF (V) max	IF (A)	IR (μA)	IR (H) (mA)	Ta (°C)	ttr ① (ns)	IF/IFP (mA)	ttr ② (ns)	IF/IFP (mA)	Rth (j-ℓ) Rth (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sine-wave Single Shot				VR=VRM max	VR=VRM max	IF/IFP (mA)		IF/IFP (mA)							
400	Axial	AG01	0.7	15	-40 to +150	1.8	0.7	100	0.5	100	100	100/100	50	100/200	22	0.13	<b>1</b>	63	
		EG01	0.7	15	-40 to +150	2.0	0.7	50	0.3	100	100	100/100	50	100/200	20	0.2	<b>2</b>		
		EG 1	0.8	15	-40 to +150	1.8	0.8	50	0.3	100	100	100/100	50	100/200	17	0.3	<b>3</b>	64	
		RG 10	1.2	50	-40 to +150	1.8	1.5	500	2.5	100	100	100/100	50	100/200	15	0.4	<b>4</b>	65	
		RG 2	1.2	50	-40 to +150	1.8	1.5	500	2.5	100	100	100/100	50	100/200	12	0.6	<b>5</b>	67	
		EL 1	1.5	20	-40 to +150	1.3	1.5	10	0.05	100	100	100/100	50	100/200	17	0.3	<b>3</b>	65	
		RL 2	2.0	40	-40 to +150	1.3	2.0	10	0.1	150 (Tj)	50	100/100	35	100/200	12	0.6	<b>5</b>	67	
		RL 3	3.5	80	-40 to +150	1.3	3.5	100	0.2	150 (Tj)	50	100/100	35	100/200	10	1.0	<b>6</b>	68	
		RG 4	1.0 (3.0)	80	-40 to +150	1.8	3.0	500	2.5	100	100	100/100	50	100/200	8	1.2	<b>7</b>	69	
	Frame-2Pin	FML-G14S	5.0	70	-40 to +150	1.3	5.0	100	0.2	100	50	100/100	35	100/200	4.0	2.1	<b>8</b>	71	
		FMN-G14S	5.0	70	-40 to +150	1.0	5.0	50	10	150 (Tj)	100	100/100	50	100/200	4.0	2.1	<b>8</b>	—	
		FMX-G14S	5.0	70	-40 to +150	1.3	5.0	50	15	150	30	100/100	25	100/200	4.0	2.1	<b>8</b>	—	
	Center-tap	FMG-14S, R	5.0	35	-40 to +150	2.0	2.5	500	1.5	100	100	100/100	50	100/200	4.0	2.1	<b>9</b>	74	
		FML-14S	5.0	40	-40 to +150	1.3	2.5	50	0.1	100	50	100/100	35	100/200	4.0	2.1		75	
		FMG-24S, R	8.0	65	-40 to +150	2.0	5.0	500	2.5	100	100	100/100	50	100/200	4.0	2.1		74	
		FML-24S	10.0	70	-40 to +150	1.3	5.0	100	0.2	100	50	100/100	35	100/200	4.0	2.1	<b>9</b>	75	
FMG-34S, R		16.0	100	-40 to +150	2.0	10.0	1000	5	100	100	100/100	50	100/200	2.0	5.5	<b>10</b>	76		
FML-34S		20.0	100	-40 to +150	1.3	10.0	200	0.4	100	50	500/500	35	500/1000	2.0	5.5	<b>10</b>	77		

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)



# Ultra-Fast-Recovery Rectifier Diodes

## 600V

$t_{rr}^{(1)}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr}^{(2)}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

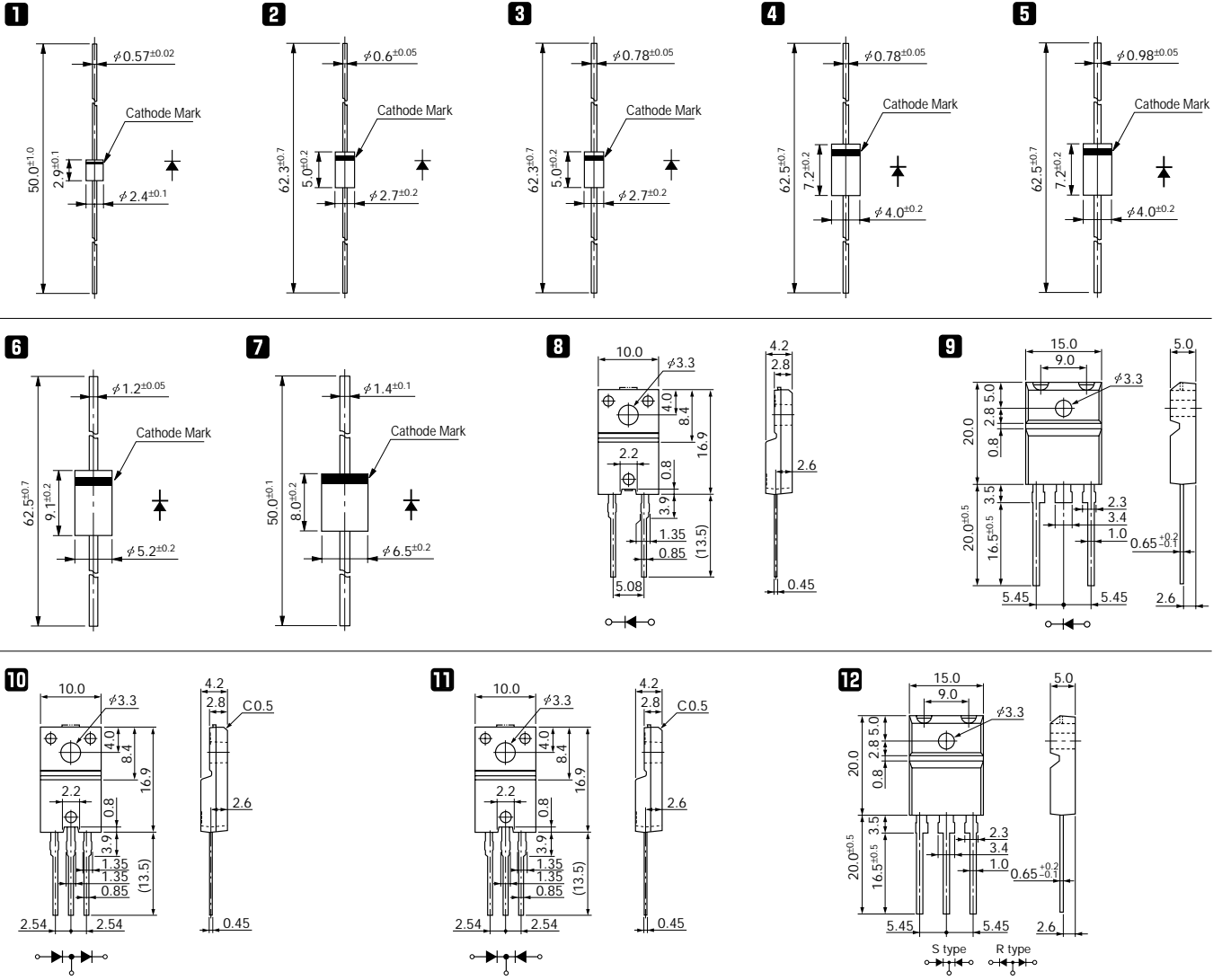
$V_{RM}$ (V)	Package	Part Number	$I_F$ (AV) (A)	$I_{FSM}$ (A)	$T_j$ (°C)	$T_{stg}$ (°C)	$V_F$ (V) max	$I_F$ (A)	$I_R$ ( $\mu$ A)	$I_R$ (H) (mA)	$T_a$ (°C)	$t_{rr}^{(1)}$ (ns)		$t_{rr}^{(2)}$ (ns)		$R_{th(j-\ell)}$ $R_{th(j-c)}$ (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					$V_R = V_{RM}$ max	$V_R = V_{RM}$ max		$I_F/I_{FP}$ (mA)	$I_F/I_{FP}$ (mA)	$R_{th(j-\ell)}$ $R_{th(j-c)}$ (°C/W)					
600	Axial	AG01A	0.5	15	-40 to +150	1.8	0.5	100	0.5	100	100	100/100	50	100/200	22	0.13	1	63	
		EG01A	0.5	10	-40 to +150	2.0	0.5	100	0.5	100	100	100/100	50	100/200	20	0.2	2	64	
		EG 1A	0.6	10	-40 to +150	2.0	0.6	100	0.5	100	100	100/100	50	100/200	17	0.3	3	65	
		RG 10A	1.0	50	-40 to +150	2.0	1.0	500	2.5	100	100	100/100	50	100/200	15	0.4	4		
		RG 2A	1.0	50	-40 to +150	2.0	1.0	500	2.5	100	100	100/100	50	100/200	12	0.6	5	67	
		RL 2A	1.2	30	-40 to +150	1.55	1.2	50	0.1	150 (Tj)	50	100/100	35	100/200	12	0.6		68	
		RL 3A	2.0	60	-40 to +150	1.7	3.0	50	0.2	150 (Tj)	50	100/100	35	100/200	10	1.0	6	69	
		RG 4A	1.0 (2.0)	50	-40 to +150	2.0	2.0	500	2.5	100	100	100/100	50	100/200	8	1.2	7		
		RL 4A	3.0	80	-40 to +150	1.5	3.0	50	0.1	150 (Tj)	50	500/500	35	500/1000	8	1.2	70		
	Frame-2Pin	FMG-G26S	4.0	50	-40 to +150	2.5	4.0	500	3.0	100	100	100/100	50	100/200	4.0	2.1	8	71	
		FML-G16S	5.0	50	-40 to +150	1.5	5.0	100	0.5	100	50	500/500	35	500/1000	4.0	2.1			
		FMX-G16S	5.0	50	-40 to +150	1.5	5.0	50	15	150	30	100/100	25	100/200	4.0	2.1			
		FMN-G16S	5.0	50	-40 to +150	1.2	5.0	50	10	150 (Tj)	100	100/100	50	100/200	4.0	2.1			
		FML-G26S	10.0	100	-40 to +150	1.7	10.0	100	0.3	100	65	500/500	40	500/1000	4.0	2.1	—		
		FMD-G26S	10.0	100	-40 to +150	1.7	10.0	100	0.3	150	50	500/500	30	500/1000	4.0	2.1			
		FMX-G26S	10.0	100	-40 to +150	1.5	10.0	100	0.02	150	30	100/100	25	100/200	4.0	2.1			
	FMG-G36S	8.0	80	-40 to +150	2.5	8.0	500	3	100	100	500/500	50	500/1000	2.0	5.5	9	73		
	Center-tap	FMC-26U	3.0	50	-40 to +150	2.0	3.0	500	3	150 (Tj)	70	500/500	35	500/1000	4.0	2.1	10	73	
		FMG-26S, R	6.0	50	-40 to +150	2.2	3.0	500	3	100	100	100/100	50	100/200	4.0	2.1	11	74	
		FMG-36S, R	15.0	80	-40 to +150	2.2	7.5	1000	5	100	100	100/100	50	100/200	2.0	5.5	12	77	
		FML-36S	20.0	100	-40 to +150	1.7	10.0	100	0.3	100	65	500/500	35	500/1000	2.0	5.5			



# Ultra-Fast-Recovery Rectifier Diodes 600V

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



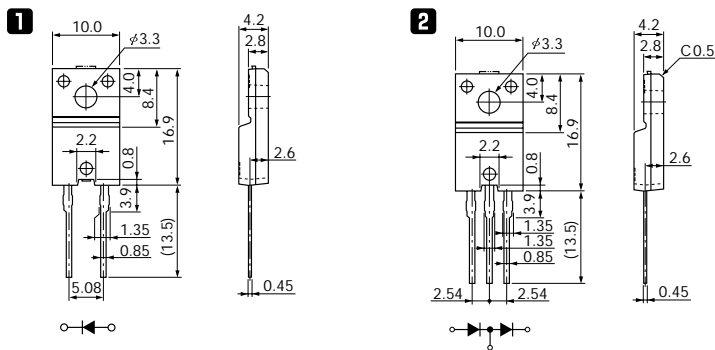
# Ultra-Fast-Recovery Rectifier Diodes 800V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (mA)	T <sub>a</sub> (°C)	t <sub>rr</sub> <sup>①</sup> (ns)		t <sub>rr</sub> <sup>②</sup> (ns)		R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sine-wave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
800	Frame-2Pin	FMC-G28S	3.0	50	-40 to +150	3.0	3.0	100	1	150 (Tj)	70	500/500	35	500/1000	4.0	2.1	1	70	
		FMC-G28SL	5.0	60	-40 to +150	3.0	5.0	200	2	150 (Tj)	70	500/500	35	500/1000	4.0	2.1			
	Center-tap	FMC-28U	3.0	50	-40 to +150	3.0	3.0	100	0.5	150 (Tj)	70	500/500	35	500/1000	4.0	2.1	2	73	

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



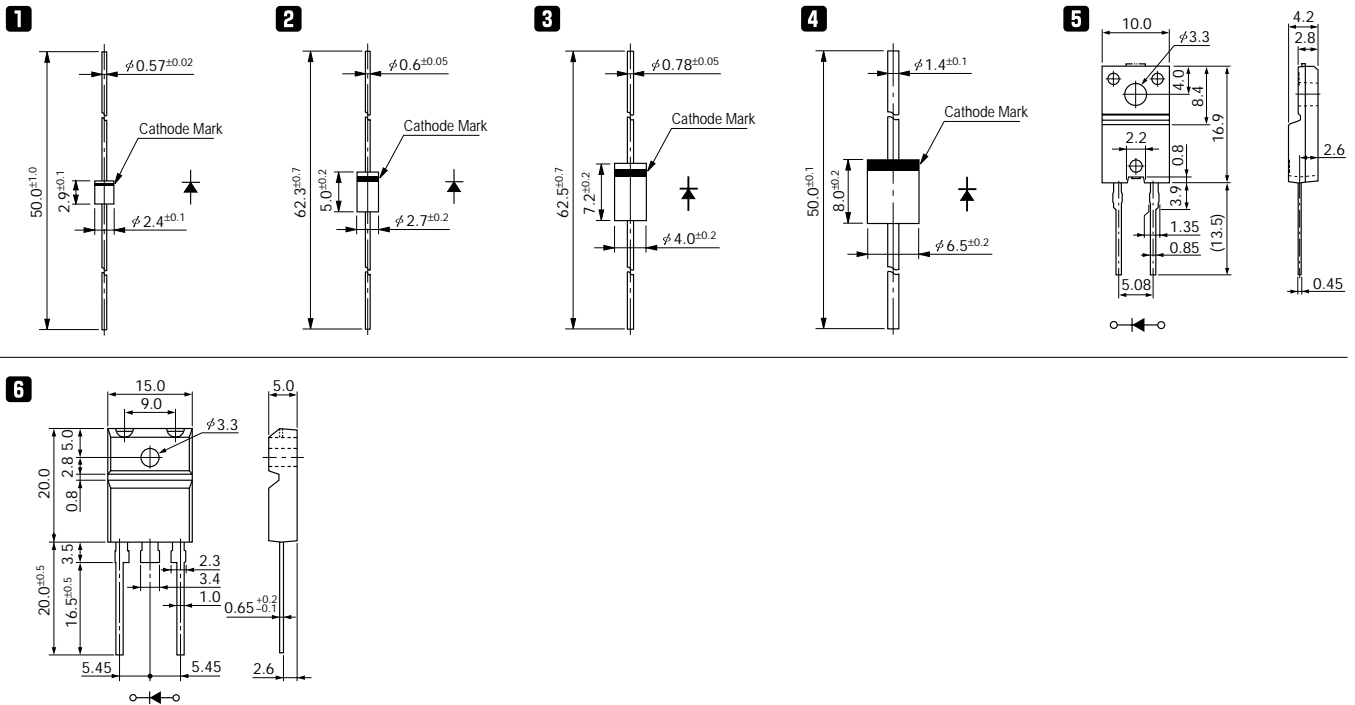
# Ultra-Fast-Recovery Rectifier Diodes 1000V

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (mA)	T <sub>a</sub> (°C)	t <sub>rr</sub> <sup>①</sup> (ns)	I <sub>F</sub> /I <sub>FP</sub> (mA)	t <sub>rr</sub> <sup>②</sup> (ns)	I <sub>F</sub> /I <sub>FP</sub> (mA)	R <sub>th</sub> (j-ℓ)	R <sub>th</sub> (j-c)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max						(°C/W)	(°C/W)			
1000	Axial	AP01C	0.2	5	-40 to +150	4.0	0.2	100	0.5	100	200	100/100	80	100/200	22	0.13	<b>1</b>	62		
		EP01C	0.2	5	-40 to +150	4.0	0.2	5	0.05	100	200	100/100	80	100/200	20	0.2	<b>2</b>			
		RU 1P	0.4	10	-40 to +150	4.0	0.4	5	0.05	100	100	100/100	50	100/200	15	0.4	<b>3</b>	66		
		EG01C	0.5	10	-40 to +150	3.3	0.5	50	0.5	100	100	100/100	50	100/200	20	0.2	<b>2</b>	64		
		RG 1C	0.7	10	-40 to +150	3.3	0.7	20	0.25	100	100	100/100	50	100/200	15	0.4	<b>3</b>	65		
		RG 4C	1.0 (2.0)	60	-40 to +150	3.0	2.0	500	2.5	100	100	500/500	50	500/1000	8	1.2	<b>4</b>	69		
	Frame-2Pin	FMG-G2CS	4.0	30	-40 to +150	4.0	3.0	50	0.3	100	100	500/500	50	500/1000	4.0	2.1	<b>5</b>	71		
		FMG-G3CS	5.0	60	-40 to +150	3.5	5.0	100	0.5	100	150	500/500	70	500/1000	2.0	5.5	<b>6</b>	73		

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



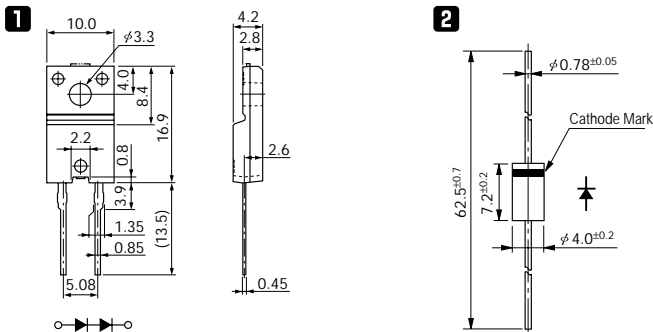
# Ultra-Fast-Recovery Rectifier Diodes 1200V and over

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (μA)	I <sub>R</sub> (H) (mA)	T <sub>a</sub> (°C)	t <sub>rr</sub> <sup>①</sup> (ns)		t <sub>rr</sub> <sup>②</sup> (ns)		R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max		I <sub>F</sub> /I <sub>FP</sub> (mA)	I <sub>F</sub> /I <sub>FP</sub> (mA)						
1200	Frame-2Pin	FMC-26UA	3.0	50	-40 to +150	4.0	3.0	500	3.0	150 (Tj)	70	500/500	35	500/1000	4.0	2.1	<b>1</b>	73	
1600	Frame-2Pin	FMC-28UA	3.0	50	-40 to +150	6.0	3.0	100	0.5	150 (Tj)	70	500/500	35	500/1000	4.0	2.1	<b>1</b>	73	
2000	Axial	RP 1H	0.1	5	-40 to +150	7.0	0.1	2	0.01	100	100	10/10	50	10/20	15	0.4	<b>2</b>	66	

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



# Schottky Barrier Diodes

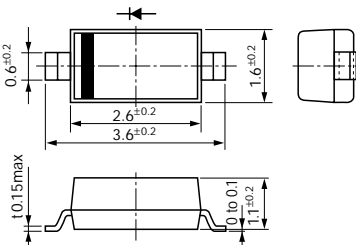
## 30V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (A) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (mA)	I <sub>R</sub> (H) (mA)	R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sine-wave Single Shot					V <sub>R</sub> = V <sub>RM</sub> max	V <sub>R</sub> = V <sub>RM</sub> max				
30	Surface Mount	MI1A3	1.0	12	-40 to +150	0.47	1.0	1	70	150 (T <sub>J</sub> )	70	0.011	1	79
		MI2A3	1.0	12	-40 to +125	0.39	1.0	2	110	125 (T <sub>J</sub> )	70	0.011		
		SFPA-53	1.0	30	-40 to +125	0.36	1.0	1.5	70	100	20	0.072		
		SFPJ-53	1.0	30	-40 to +150	0.45	1.0	1.0	35	150	20	0.072		
		SFPA-63	2.0	40	-40 to +125	0.36	2.0	3.0	140	100	20	0.072		
		SFPE-63	2.0	40	-40 to +150	0.55	2.0	0.2	20	150 (T <sub>J</sub> )	20	0.072		
		SFPJ-63	2.0	40	-40 to +150	0.45	2.0	2.0	70	150	20	0.072		
		SFPA-73	3.0	50	-40 to +125	0.36	3.0	4.5	210	100	20	0.072		
		SFPJ-73	3.0	50	-40 to +150	0.45	3.0	3.0	100	150	20	0.072		
		SPJ-G53S	5.0	100	-40 to +150	0.45	5.0	5.0	250	150	5	0.29		
	SPJ-63S	6.0	50	-40 to +150	0.45	3.0	3	100	150 (T <sub>J</sub> )	5	0.29			
	Axial	AK 03	1.0	25	-40 to +150	0.55	1.0	1	50	100 (T <sub>J</sub> )	22	0.13	4	82
		EA 03	1.0	30	-40 to +125	0.36	1.0	1.5	70	100	20	0.3	5	—
		EK 03	1.0	40	-40 to +150	0.55	1.0	5	50	100	20	0.3	6	83
		EK 13	1.5	40	-40 to +150	0.55	2.0	5	50	100	17	0.3		
		RK 13	1.7	60	-40 to +150	0.55	2.0	5	50	100	15	0.45	7	84
		RA 13	2.0	40	-40 to +125	0.36	2.0	3	140	100	15	0.45	8	—
		RK 33	2.5	50	-40 to +150	0.55	2.5	5	50	100	12	0.6		
		RJ 43	3.0	50	-40 to +150	0.45	3.0	3	100	150	8	1.2	9	—
RK 43	3.0	80	-40 to +150	0.55	3.0	5	50	100	8	1.2				
Center-tap	FMJ-23L	10	100	-40 to +150	0.45	5.0	5	250	150 (T <sub>J</sub> )	4	2.1	10	90	
	FMJ-2203	20	150	-40 to +150	0.47	10.0	10	350	150	4	2.1			
	FMJ-2303	30	150	-40 to +150	0.48	15.0	15	500	150	4	2.1			

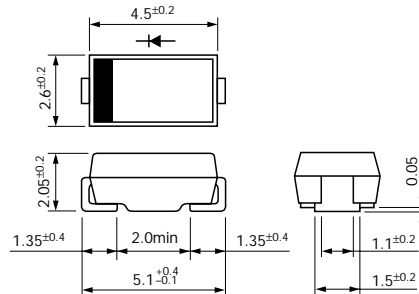
### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

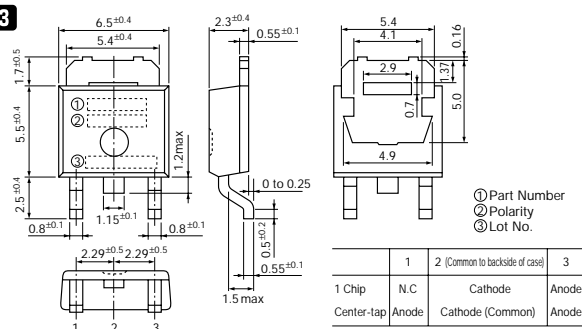
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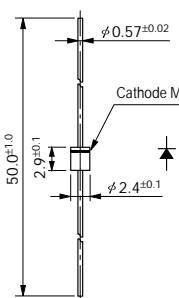
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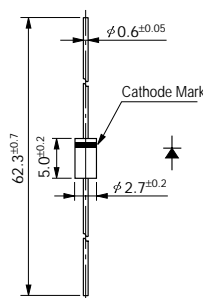
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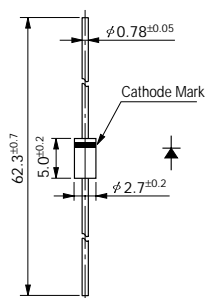
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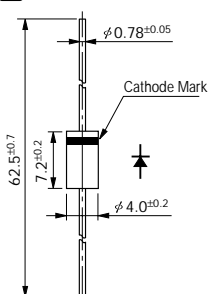
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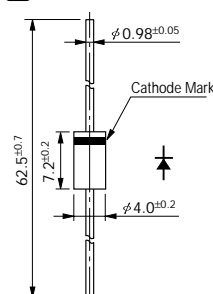
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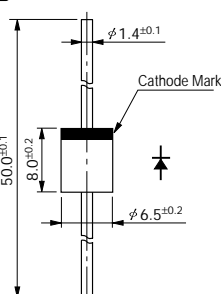
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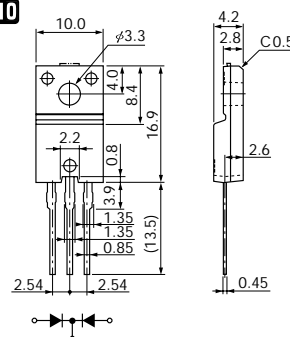
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9



10



# Schottky Barrier Diodes

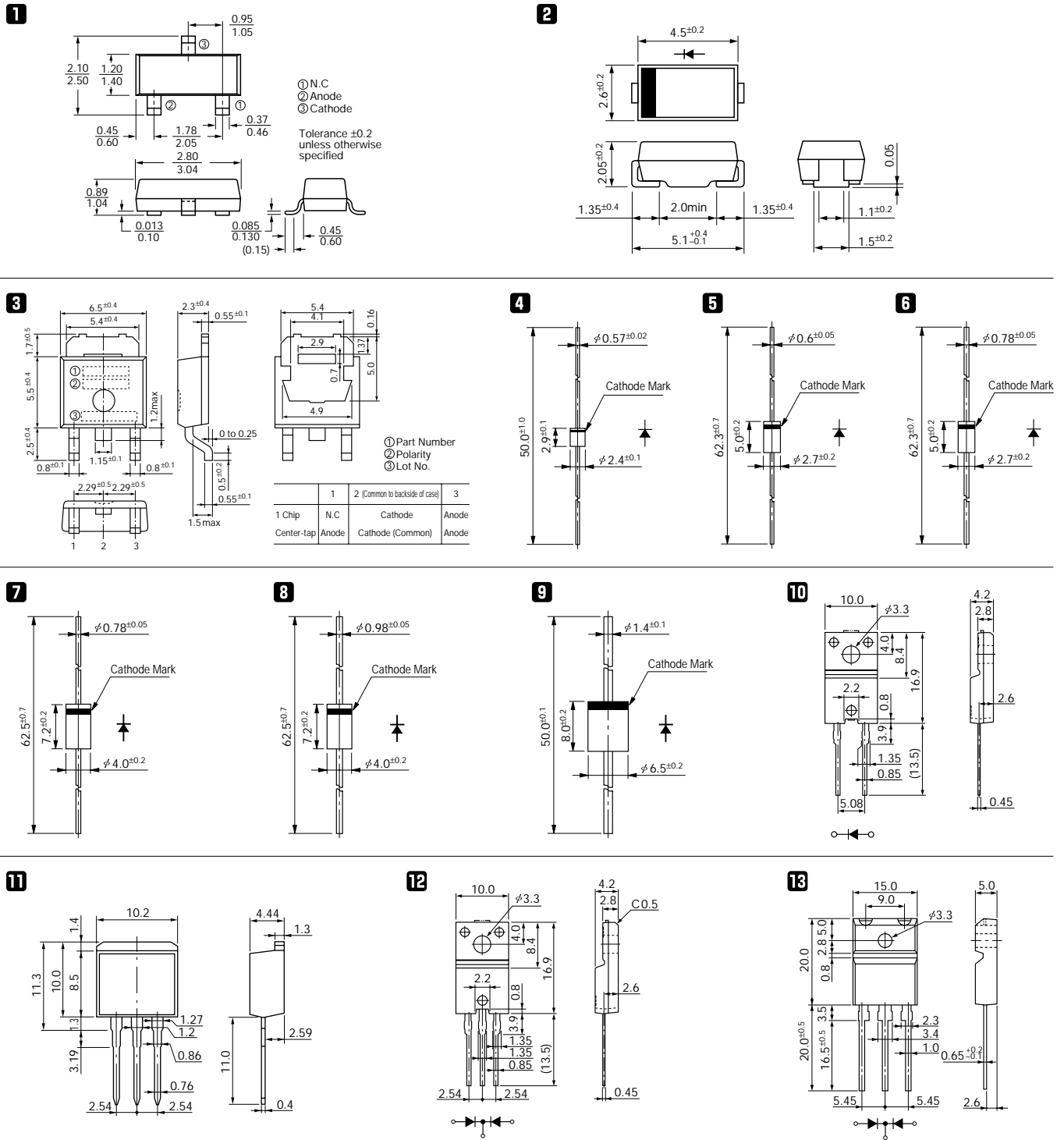
## 40V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (mA)	I <sub>R</sub> (H) (mA)		R <sub>th(j-ℓ)</sub> R <sub>th(j-c)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max	T <sub>a</sub> (°C)				
40	Surface Mount	SSB-14	0.5	4	-40 to +150	0.58	0.5	0.1	5	100	150	0.009	<b>1</b>	79	
		SFPB-54	1.0	30	-40 to +150	0.55	1.0	1	50	100	20	0.072	<b>2</b>		
		SFPB-64	1.5	60	-40 to +150	0.55	2.0	5	50	100	20	0.072		80	
		SFPB-74	2.0	60	-40 to +150	0.5	2.0	5	50	100	20	0.072	—		
		SFPE-64	2.0	40	-40 to +150	0.6	2.0	0.2	20	150 (T <sub>j</sub> )	20	0.072		<b>3</b>	
		SPB-G34S	3.0	50	-40 to +150	0.55	3.0	3.5	50	100	5	0.29	81		
		SPB-G54S	5.0	60	-40 to +150	0.55	5.0	5	50	100	5	0.29		<b>4</b>	
		SPB-64S	6.0	50	-40 to +150	0.55	3.0	3.5	50	100	5	0.29	82		
	Axial	AK 04	1.0	25	-40 to +150	0.55	1.0	1	50	100 (T <sub>j</sub> )	22	0.13		<b>4</b>	—
		AW 04	1.0	25	-40 to +150	0.58	1.0	5	35	150	22	0.13			
		EK 04	1.0	40	-40 to +150	0.55	1.0	5	50	100	20	0.3	<b>5</b>	83	
		EK 14	1.5	40	-40 to +150	0.55	2.0	5	50	100	17	0.3			
		RK 14	1.7	60	-40 to +150	0.55	2.0	5	50	100	15	0.45	<b>7</b>	84	
		RK 34	2.5	50	-40 to +150	0.55	2.5	5	50	100	12	0.6			
		RK 44	3.0	80	-40 to +150	0.55	3.0	5	50	100	8	1.2	<b>9</b>	85	
	Frame-2Pin	FMB-G14	3.0	60	-40 to +150	0.55	3.0	5	100	100	4	2.1	<b>10</b>	86	
		FMB-G14L	5.0	60	-40 to +150	0.55	5.0	5	100	100	4	2.1			
		FMB-G24H	10.0	150	-40 to +150	0.55	10.0	10	65	100	4	2.1			
	Center-tap	MPE-24H	15	100	-40 to +150	0.6	7.5	0.75	50	150 (T <sub>j</sub> )	2.5	1.04	<b>11</b>	82	
		FMB-24	4.0	50	-40 to +150	0.55	2.0	5	35	100	4	2.1	<b>12</b>	87	
		FMB-24M	6.0	60	-40 to +150	0.55	3.0	5	35	100	4	2.1			
		FMW-24L	10.0	100	-40 to +150	0.55	5.0	5	175	150	4	2.1			
		FMB-24L	10	60	-40 to +150	0.55	5.0	5	35	100	4	2.1	87		
		FME-24L	10	80	-40 to +150	0.6	5.0	0.5	30	100	4	2.1			
		FMB-34S	12	75	-40 to +150	0.58	6	5	35	100	2	5.5	<b>13</b>	91	
		FMW-24H	15	120	-40 to +150	0.55	7.5	7.5	250	150	4	2.1	<b>12</b>	87	
		FME-24H	15	100	-40 to +150	0.6	7.5	0.75	50	100	4	2.1			
		FMB-24H	15	100	-40 to +150	0.55	7.5	7.5	50	100	4	2.1			
FMB-34		15	150	-40 to +150	0.55	7.5	10	65	100	2	5.5	<b>13</b>	90		
FMB-2204		20	150	-40 to +150	0.55	10	10	350	150	4	2.1	<b>12</b>	—		
FMB-2304		30	150	-40 to +150	0.55	15	15	500	150	4	2.1				
FMB-34M	30	300	-40 to +150	0.55	15.0	20	100	100	2	5.5	<b>13</b>	90			

# Schottky Barrier Diodes 40V

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)



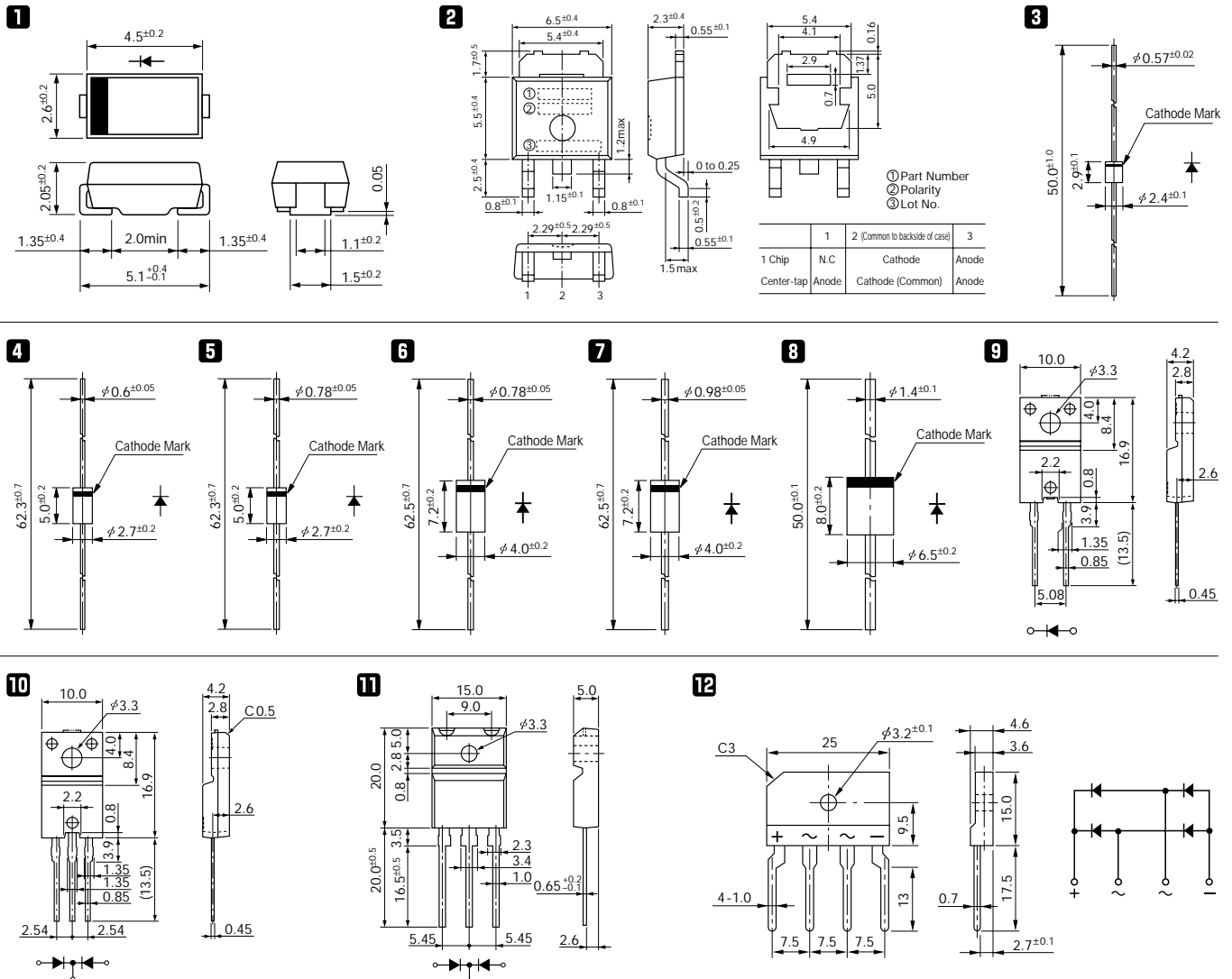
# Schottky Barrier Diodes

## 60V

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (A) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (mA)	I <sub>R</sub> (H) (mA)	T <sub>a</sub> (°C)	R <sub>th(j-l)</sub> R <sub>th(j-c)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max					
60	Surface Mount	SFPB-56	0.7	10	-40 to +150	0.62	0.7	1	7.5	100	20	0.072	1	79	
		SFPB-66	2.0	25	-40 to +150	0.69	2.0	1	15	100	20	0.072			
		SFPB-76	2.0	40	-40 to +150	0.62	2.0	2	20	100	20	0.072			
		SPB-G56S	5.0	60	-40 to +150	0.7	5.0	3	125	150	5	0.29	2	81	
		SPB-66S	6.0	40	-40 to +150	0.7	3.0	1	70	150	5	0.29			
	Axial	AK 06	0.7	10	-40 to +150	0.62	0.7	1	7.5	100	22	0.13	3	82	
		EK 06	0.7	10	-40 to +150	0.62	0.7	1	7.5	100	20	0.3	4		
		EK 16	1.5	25	-40 to +150	0.62	1.5	1	15	100	17	0.3	5	83	
		RK 16	1.5	25	-40 to +150	0.62	1.5	1	15	100	15	0.45	6		
		RK 36	2.0	40	-40 to +150	0.62	2.0	2	20	100	12	0.6	7	85	
		RK 46	3.5	70	-40 to +150	0.62	3.5	3	35	100	8	1.2	8		
	Frame-2Pin	FMB-G16L	6.0	50	-40 to +150	0.62	5.0	5	50	100	4	2.1	9	86	
	Center-tap	FMB-26	4.0	40	-40 to +150	0.62	2.0	1	20	100	4	2.1	10	88	
		FMB-26L	10	50	-40 to +150	0.62	5.0	2.5	50	100	4	2.1			
		FMB-36	15	100	-40 to +150	0.62	7.5	5	75	100	2	5.5	11	91	
		FMB-2206	20	150	-40 to +150	0.7	10.0	8	275	150	4	2.1	10	88	
		FMB-2306	30	150	-40 to +150	0.7	15	8	400	150 (T <sub>J</sub> )	4	2.1			
FMB-36M		30	150	-40 to +150	0.62	15.0	10	150	100	2	5.5	11	91		
Bridge	RBV-406B	4.0	40	-40 to +150	0.62	2.0	2	20	100	5	4.25	12	92		

### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)





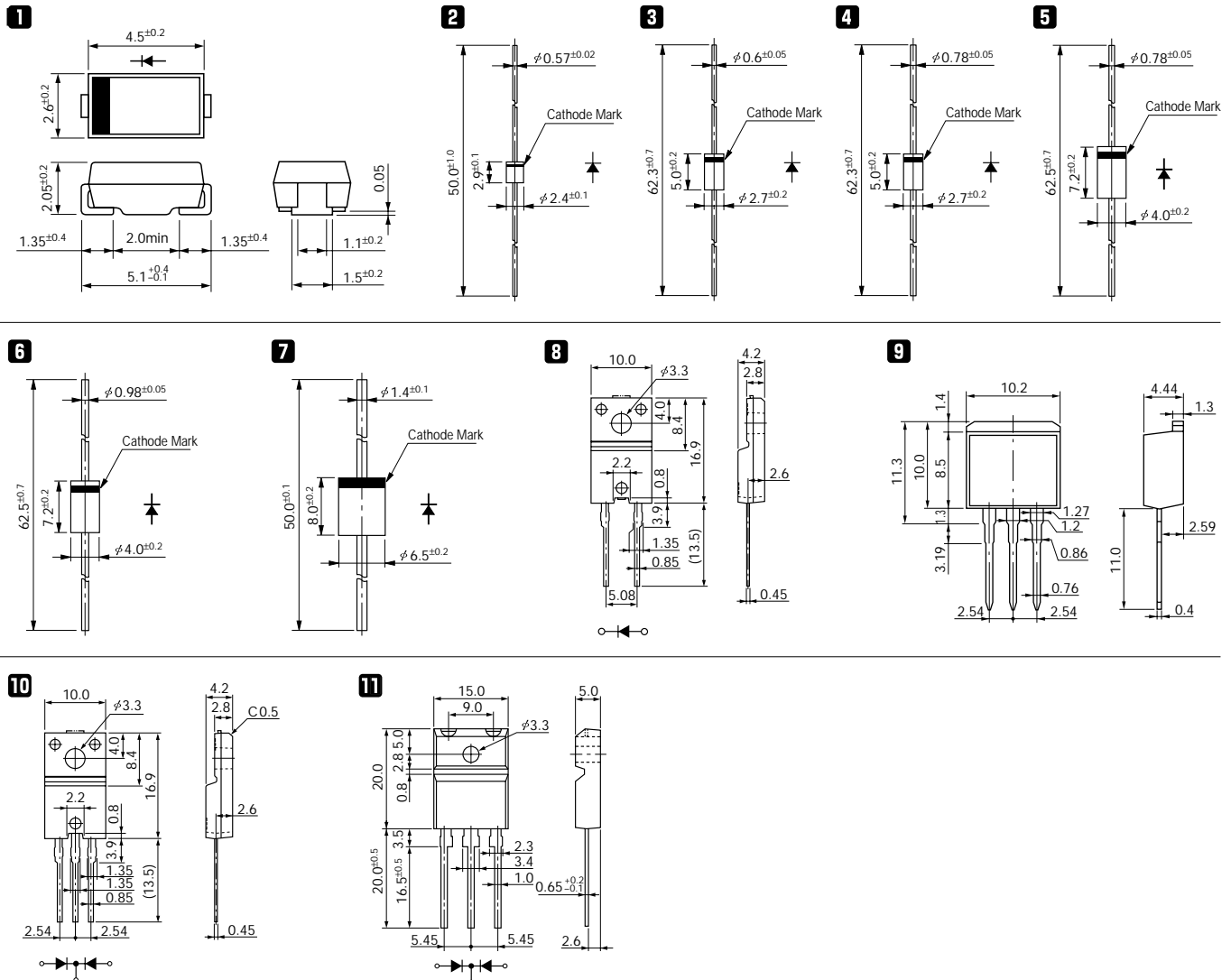
# Schottky Barrier Diodes

# 90V and over

V <sub>RM</sub> (V)	Package	Part Number	I <sub>F</sub> (AV) (A)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	I <sub>R</sub> (mA)	I <sub>R</sub> (H) (mA)	R <sub>th</sub> (j-ℓ) R <sub>th</sub> (j-c) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot					V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max				
90	Surface Mount	SFPB-59	0.7	10	-40 to +150	0.81	0.7	1	5	100	20	0.072	1	79
		SFPB-69	1.5	40	-40 to +150	0.81	1.5	2	10	100	20	0.072		80
	Axial	AK 09	0.7	10	-40 to +150	0.81	0.7	1	5	100	22	0.13	2	82
		EK 09	0.7	10	-40 to +150	0.81	0.7	1	5	100	20	0.3	3	83
		EK 19	1.5	40	-40 to +150	0.81	1.5	2	10	100	17	0.3	4	84
		RK 19	1.5	40	-40 to +150	0.81	1.5	2	10	100	15	0.45	5	
		RK 39	2.0	50	-40 to +150	0.81	2.0	3	15	100	12	0.6	6	85
		RK 49	3.5	60	-40 to +150	0.81	3.5	5	35	100	8	1.2	7	
	Frame-2Pin	FMB-G19L	4.0	60	-40 to +150	0.81	4.0	5	35	100	4	2.1	8	86
	Center-tap	FMB-29	4.0	50	-40 to +150	0.81	2.0	3	15	100	4	2.1	10	89
		FMB-29L	8.0	60	-40 to +150	0.81	4.0	5	35	100	4	2.1		
FMB-39		15	60	-40 to +150	0.81	7.5	10	50	100	2	5.5	11	91	
MPE-29G		20	120	-40 to +150	0.85	10	1	100	150 (T <sub>J</sub> )	2.5	1.04	9	82	
FMB-39M		20	150	-40 to +150	0.81	10.0	15	60	100	2	5.5	11	91	
100	Center-tap	FME-220A	20	120	-40 to +150	0.85	10	1	100	150 (T <sub>J</sub> )	4	2.1	10	90
		FME-230A	30	150	-40 to +150	0.85	15	1.5	150	150 (T <sub>J</sub> )	4	2.1		

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

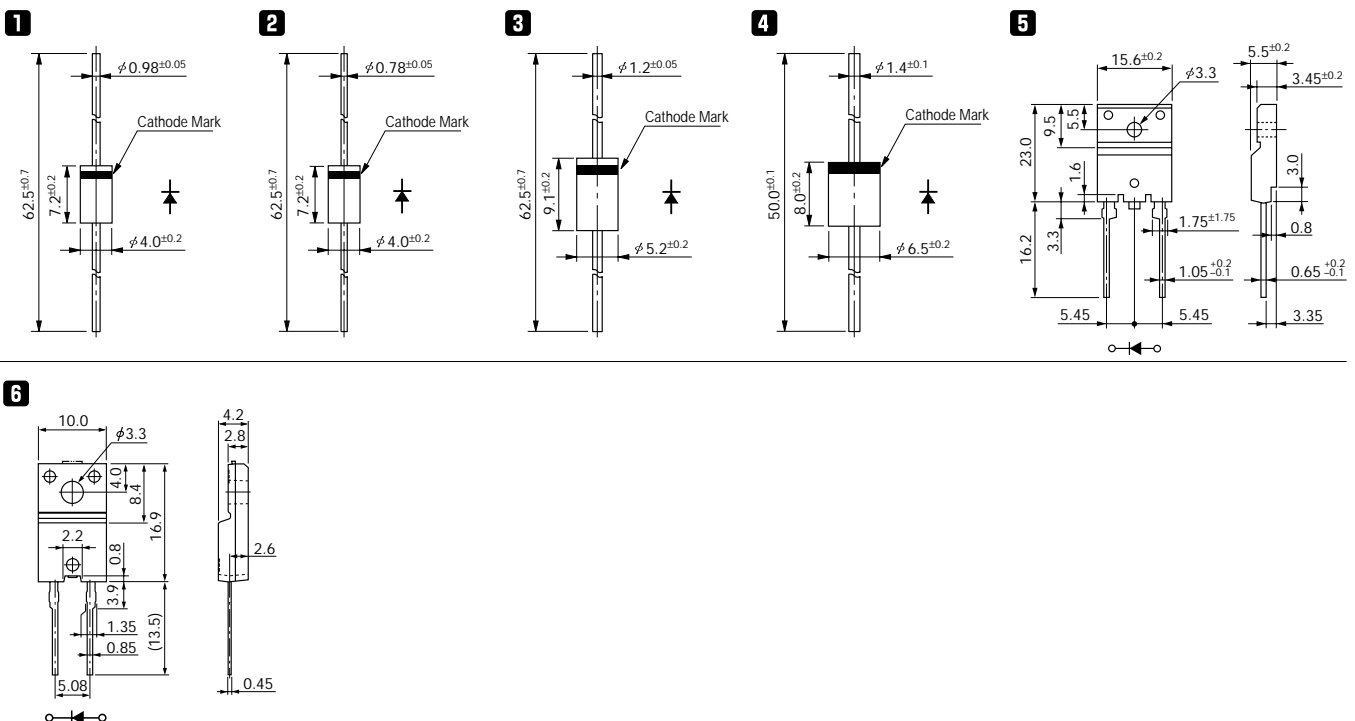


# Damper Diodes

$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

Division	$V_{RM}$ (V)	Part Number	$I_F$ (AV) (A) ( ) is with Heatsink 50Hz Half-cycle Sinewave Single Shot	$I_{FSM}$ (A)	$T_j$ (°C)	$T_{stg}$ (°C)	$V_F$ (V) max	$I_R$ (μA)		$T_a$ (°C)	$t_{rr} \textcircled{1}$ (μs)		$t_{rr} \textcircled{2}$ (μs)		$R_{th(j-\ell)}$ (°C/W)	Mass (g)	Fig. No.	Page where characteristic curves is shown	
								$V_R = V_{RM}$ max	$V_R = V_{RM}$ max		$I_F$ (A)	$I_F/I_{FP}$ (mA)	$I_F/I_{FP}$ (mA)	$I_F/I_{FP}$ (mA)					
For TV	1300	RH 2D	1.0	60	-40 to +150	1.0	1.0	10	0.5	100	4.0	10/10	1.3	100/200	12	0.6	<b>1</b>	93	
		RH 10F	0.8	60	-40 to +150	1.0	1.0	10	0.5	100	4.0	10/10	1.3	100/200	15	0.44	<b>2</b>		
		RH 2F	1.0	60	-40 to +150	1.0	1.0	10	0.5	100	4.0	10/10	1.3	100/200	12	0.6	<b>1</b>		
	1500	RS 3FS	2.0	50	-40 to +150	1.1	3.0	50	0.5	100	2.0	100/100	0.8	100/200	10	1.0	<b>3</b>		
		RH 3F	2.5	50	-40 to +150	1.3	2.5	50	0.5	100	4.0	100/100	1.3	100/200	10	1.0	<b>3</b>		
		RS 4FS	1.5 (2.5)	50	-40 to +150	1.5	3.0	50	0.5	100	1.0	100/100	0.4	100/200	8	1.2	<b>4</b>		
		RH 4F	2.5	50	-40 to +150	1.5	2.5	10	0.35	100	4.0	100/100	1.3	100/200	8	1.2	<b>4</b>		
	1600	FMV-G5FS	10	50	-40 to +150	1.5	10	50	0.7	100	2.0	500/500	0.8	500/1000	2	6.5	<b>5</b>		97
	1800	FMR-G5HS	10	50	-40 to +150	1.6	10	20	0.2	100	1.8	500/500	0.7	500/1000	2	6.5	<b>5</b>		96
For CRT Display	1300	RU 4D	1.2 (1.5)	50	-40 to +150	1.8	1.5	50	0.5	100	0.4	500/500	0.18	500/1000	8	1.2	<b>4</b>	94	
		RU 4DS	1.5 (2.5)	50	-40 to +150	1.8	3.0	50	0.5	100	0.4	500/500	0.18	500/1000	8	1.2	<b>4</b>		
	1500	RP 3F	2.0	50	-40 to +150	1.7	2.0	50	0.5	100	0.7	500/500	0.3	500/1000	10	1.0	<b>3</b>	93	
		FMQ-G1FS	5.0	50	-40 to +150	2.0	5.0	50	0.5	150	0.7	500/500	0.3	500/1000	4	2.1	<b>6</b>		
		FMP-G2FS	5.0	50	-40 to +150	2.0	5.0	50	0.5	100	0.7	500/500	0.3	500/1000	4	2.1			
		FMQ-G2FLS	10	50	-40 to +150	1.8	10.0	50	0.5	150 (Tj)	1.2	500/500	0.4	500/1000	4	2.1			
		FMU-G2FS	10	50	-40 to +150	1.6	10	50	6	150 (Tj)	0.6	500/500	0.25	500/1000	4	2.1			
		FMQ-G2FS	10	50	-40 to +150	2.8	10	50	0.5	150 (Tj)	0.5	500/500	0.2	500/1000	4	2.1			
		FMQ-G2FMS	10	50	-40 to +150	2.4	10	50	0.5	150	0.5	500/500	0.25	500/1000	4	2.1			
	1700	FMQ-G5GS	10	50	-40 to +150	2.7	10	100	0.5	100	0.5	500/500	0.2	500/1000	2	6.5		<b>5</b>	96
1800	FMP-G5HS	8.0	50	-40 to +150	2.0	8.0	25	0.25	100	1.0	500/500	0.4	500/1000	2	6.5				
	FMR-G5HS	10	50	-40 to +150	1.6	10	20	0.2	100	1.8	500/500	0.7	500/1000	2	6.5				
For CRT Display Compensation	1300	RG 2A2	0.5	5	-40 to +150	3.5	0.5	100	0.5	100	0.1	100/100	0.05	100/200	12	0.6	<b>1</b>	94	
	1600	RC 3B2	1.0	20	-40 to +150	3.6	1.0	100	0.5	100	0.07	500/500	0.035	500/1000	10	1.0	<b>3</b>		

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)



# Damper Diodes

## (Diode modulation Type)

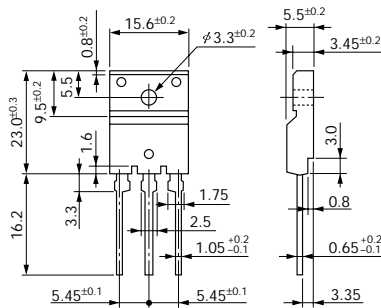
$t_{rr} \textcircled{1}$ :  $I_F/I_R (=I_F)$  90% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)  
 $t_{rr} \textcircled{2}$ :  $I_F/I_R (=2 I_F)$  75% Recovery Point  
 (ex.  $I_F/I_R = 100\text{mA}/200\text{mA}$  75% Recovery Point)

Division	$V_{RM}$ (V)	Part Number	$I_F$ (AV) (A)	$I_{FSM}$ (A) 50Hz Half-cycle Sinewave Single Shot	$T_j$ (°C)	$T_{stg}$ (°C)	$V_F$ (V) max	$I_F$ (A)	$I_R$ ( $\mu$ A) $V_R=V_{RM}$ max	$I_R$ (H) (mA) $V_R=V_{RM}$ max	$T_a$ (°C)	$t_{rr} \textcircled{1}$ ( $\mu$ s)		$t_{rr} \textcircled{2}$ ( $\mu$ s)		$R_{th(j-c)}$ (°C/W)	Mass (g)	Fig. No.	Page where characteristics curves is shown
												$I_F/I_{FP}$ (mA)	$I_F/I_{FP}$ (mA)						
For TV	1500	FMV-3FU	5.0	50	-40 to +150	1.4	5.0	50	0.5	100	4.0	500/500	1.3	500/1000	1.8	6.5	1	97	
	600											500/500	0.18	500/1000					
	1700	FMV-3GU	5.0	50	-40 to +150	1.5	5.0	50	0.5	100	2.0	500/500	0.8	500/1000					
	600											500/500	0.18	500/1000					
For CRT Display	1500	FMP-2FUR	5.0	50	-40 to +150	2.0	5.0	50	3	150 (Tj)	0.7	500/500	0.3	500/1000	4.0	2.1	2	99	
	600											500/500	0.05	500/1000					
	1500	FMQ-2FUR	5.0	50	-40 to +150	1.4	5.0	50	2	150	2	500/500	0.8	500/1000	4.0	2.1			
	600											500/500	0.07	500/1000					
	1500	FMT-2FUR	5.0	50	-40 to +150	1.8	5.0	50	2	150	1.0	500/500	—	500/1000	4.0	2.1			
	600											500/500	—	500/1000					
	1500	FMP-3FU	5.0	50	-40 to +150	2.0	5.0	50	0.5	100	0.7	500/500	0.3	500/1000	1.8	6.5	1	98	
	600											500/500	0.05	500/1000					
	1700	FMQ-3GU	5.0	50	-40 to +150	2.0	5.0	500	1	100	0.7	500/500	0.3	500/1000	1.8	6.5			
	800											500/500	0.04	500/1000					

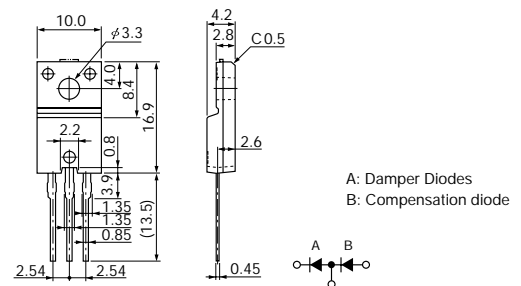
### External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

1



2



# High-Voltage Rectifier Diodes

$t_{rr}$  ①:  $I_F/I_R (=I_F)$  90% Recovery Point  
(ex.  $I_F/I_R = 100\text{mA}/100\text{mA}$  90% Recovery Point)

Division	$V_{RM}$ (kV)	Part Number	$I_F$ (AV) (mA)	$I_{FSM}$ (A)	$T_c$ (°C)	$T_{stg}$ (°C)	$V_F$ (V)	$I_F$ (mA)	$I_R$ ( $\mu\text{A}$ )	$I_R$ (H) ( $\mu\text{A}$ )	$T_a$ (°C)	$t_{rr}$ ① ( $\mu\text{s}$ )		Mass (g)	Fig. No.		
												$V_R = V_{RM}$ max	$V_R = V_{RM}$ max			$T_a = 100^\circ\text{C}$	$I_F/I_{FP}$ (mA)
For General Purpose	2	SHV-02	2.0	0.3	100	-40 to +120	16	10	1	3	100	0.18	—	10/10	0.13	<b>1</b>	
	3	SHV-03S	2.0	0.3	100	-40 to +120	16	10	1	3	100	0.18	—	10/10	0.13		
	3	SHV-03	2.0	0.5	100	-40 to +120	16	10	1	3	100	0.18	—	10/10	0.16		<b>2</b>
For General FBT	10	SHV-10	2.0*	0.5	100	-40 to +120	40	10	1	3	100	0.18	—	10/10	0.33	<b>3</b>	
	12	SHV-12	2.0*	0.5	100	-40 to +120	45	10	1	3	100	0.18	—	10/10	0.33		
	14	SHV-14	2.0*	0.5	100	-40 to +120	55	10	1	3	100	0.18	—	10/10	0.33		
	16	SHV-16	2.0*	0.5	100	-40 to +120	60	10	1	3	100	0.18	—	10/10	0.33		
	20	SHV-20	2.0*	0.5	100	-40 to +120	75	10	1	3	100	0.18	—	10/10	0.33		<b>4</b>
	24	SHV-24	2.0*	0.5	100	-40 to +120	75	10	1	3	100	0.18	—	10/10	0.33		
For High Frequency Multi-layer FBT	6	SHV-06EN	2.0*	0.5	100	-40 to +120	24	10	1	3	100	0.15	0.20	10/10	0.17	<b>5</b>	
	8	SHV-08EN	2.0*	0.5	100	-40 to +120	30	10	1	3	100	0.15	0.20	10/10	0.17		
	10	SHV-10EN	2.0*	0.5	100	-40 to +120	38	10	1	3	100	0.15	0.20	10/10	0.20		<b>6</b>
	12	SHV-12EN	2.0*	0.5	100	-40 to +120	45	10	1	3	100	0.15	0.20	10/10	0.20		
For Ultra-High Frequency Multi-layer FBT	8	SHV-08DN	2.0*	0.5	100	-40 to +120	30	10	1	3	100	0.15	0.20	10/10	0.17	<b>5</b>	
	10	SHV-10DN	2.0*	0.5	100	-40 to +120	38	10	1	3	100	0.15	0.20	10/10	0.20		<b>6</b>
	12	SHV-12DN	2.0*	0.5	100	-40 to +120	45	10	1	3	100	0.15	0.20	10/10	0.20		
For General Type Microwave Oven	9	HVR-1X-40B	350	20	60 (Ta)	-40 to +130	9	350	10	$V_z = 9.5$ to $15\text{kV}$		—	—	—	2.5	<b>7</b>	
For Inverter Type Microwave Oven	8	UX-F5B	350	15	60 (Ta)	-40 to +130	14	350	10	$V_z = 8.5\text{kV min}$		0.15	—	100/100	2.5		
For Automotive Ignition Coil	2.5	SHV-05JS	30	3	—	-40 to +150	5	10	10	$V_z = 2.6$ to $5.0$ (@ $I_R = 100\mu\text{A}$ )		—	—	0.16	<b>2</b>		
	4.0	SHV-08J	30	3	—	-40 to +150	8	10	10	$V_z = 4.5$ to $8.0$ (@ $I_R = 100\mu\text{A}$ )		—	—	0.20		<b>8</b>	
	15.0	SHV-30J	30	3	—	-40 to +150	3	10	10	$V_z = 16.0$ to $30.0$ (@ $I_R = 100\mu\text{A}$ )		—	—	0.33			<b>4</b>

\* FBT High Voltage Rectifier Capacitive Load,  $T_c \leq 100^\circ\text{C}$

# High-Voltage Rectifier Diodes

Part Number	External dimensions	Marking (Cathode Mark)	
		Pattern	Color
SHV-02	<b>1</b>		White
SHV-03S			Red
SHV-03	<b>2</b>		White
SHV-05JS			Red
SHV-06EN	<b>3</b>		White
SHV-08EN			White
SHV-08DN			Red
SHV-10EN	<b>4</b>		White
SHV-10DN			Red
SHV-12EN			White
SHV-12DN			Red
SHV-30J			White
SHV-10	<b>5</b>		White
SHV-12			
SHV-14			
SHV-16	<b>6</b>		White
SHV-20			
SHV-24			
HVR-1X-40B	<b>7</b>		White
UX-F0B			
SHV-08J	<b>8</b>		White

- The SHV series of diodes have been miniaturized by resin on the assumption for remolding. Measures against creeping discharge and humidity stress must be taken when using these diodes.
- The taping specifications of the SHV series differ from ordinary diodes. (P.10)

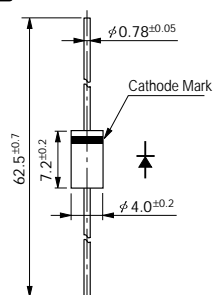
# Avalanche Diodes with built-in Thyristor

V <sub>Z</sub> (V)	V <sub>RDC</sub> (V) (-10°C)	Part Number	I <sub>TSM</sub> (A) 50Hz Half-cycle Sinewave Single Shot	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	I <sub>R</sub> (μA)		T <sub>a</sub> (°C)	γ (typ)	Mass (g)	Fig. No.	Page where characteristic curve is shown
						V <sub>R</sub> =V <sub>RM</sub> max	V <sub>R</sub> =V <sub>RM</sub> max					
27 to 33	20	RZ1030	30	-40 to +125	-40 to +150	10	50	100	0.03	0.44	<b>1</b>	100
34 to 40	28	RZ1040	30	-40 to +125	-40 to +150	10	50	100	0.05	0.44		
50 to 60	40	RZ1055	30	-40 to +125	-40 to +150	10	50	100	0.07	0.44		
60 to 70	50	RZ1065	30	-40 to +125	-40 to +150	10	50	100	0.08	0.44		
90 to 110	80	RZ1100	30	-40 to +125	-40 to +150	10	50	100	0.10	0.44		
115 to 135	105	RZ1125	30	-40 to +125	-40 to +150	10	50	100	0.14	0.44		
140 to 160	125	EZ0150	30	-40 to +125	-40 to +150	10	50	100	0.18	0.2	<b>2</b>	101
	125	RZ1150	30	-40 to +125	-40 to +150	10	50	100	0.18	0.44	<b>1</b>	100
150 to 165	138.7	RZ1155	30	-40 to +125	-40 to +150	10	50	100	0.18	0.44		—
165 to 185	150	RZ1175	30	-40 to +125	-40 to +150	10	50	100	0.22	0.44		100
185 to 215	180	RZ1200	30	-40 to +125	-40 to +150	10	50	100	0.30	0.44		101

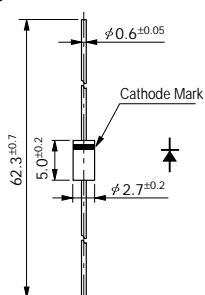
## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

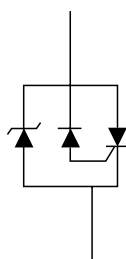
**1**



**2**



Equivalent circuit diagram



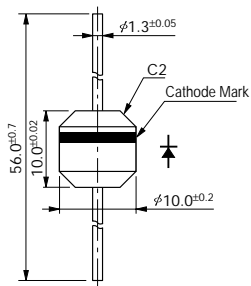
# Power Zener Diodes

V <sub>Z</sub> (V) I <sub>Z</sub> = 1mA Instantaneous	P <sub>R</sub> (W) P.W = 5ms	Part Number	V <sub>DC</sub> (V)	I <sub>ZSM</sub> (A) Rectangular wave single shot 10ms	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	I <sub>R</sub> (μA)		T <sub>a</sub> (°C)	V <sub>Z</sub> Temperature dependence (V/°C) I <sub>Z</sub> = 1mA	R <sub>Z</sub> (Ω) I <sub>Z</sub> = 1.0A to 10A	V <sub>F</sub> (V) max	I <sub>F</sub> (A)	Mass (g)	Fig. No.	Page where characteristic curve is shown
							V <sub>R</sub> = V <sub>DC</sub> max	V <sub>R</sub> = V <sub>DC</sub> max								
28±3.0	50	SFPZ-68	20	2	-40 to +150		10	1000	150	0.02	0.03 typ	0.95	1.0	0.072	<b>1</b>	—
28±3.0	1500	PZ 628	20	65	-40 to +150		500	1000	150	0.02	0.03 typ	0.95	5.0	2.6	<b>2</b>	102
36±3.6	450	SPZ-G36	30	11	-40 to +150		5	1000	150	0.03	0.24 typ	0.98	3.0	0.29	<b>3</b>	—

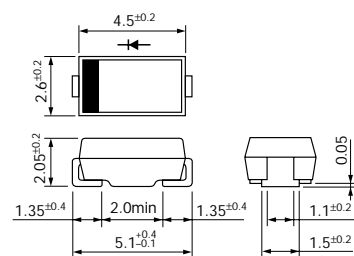
## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

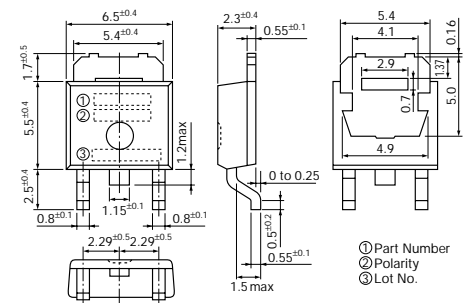
**1**



**2**



**3**

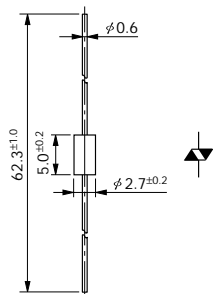


# Symmetrical type Silicon Varistors

V <sub>F</sub> (V)	I <sub>F</sub> (mA)	Part Number	I <sub>F</sub> (μA) max	V <sub>F</sub> (V)	I <sub>FSM</sub> (A)	T <sub>J</sub> (°C)	T <sub>stg</sub> (°C)	R <sub>th</sub> (j-ℓ) (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
					50Hz Half-cycle Sinewave Single Shot						
1.5 max	1000	VR-60SS	20	0.2	15	-40 to +100		20	0.3	1	103
2.3±0.25	1	VR-61SS			7.5	-40 to +100	20	0.3			
2.75±0.25	10										
3.1±0.25	70										
4.0 max	100	SV-2SS	50	1.2		-40 to +100	20	0.3			
2.0 max	100	SV-3SS	50	0.6		-40 to +100	20	0.3			
1.8±0.2	1	SV-4SS	50	0.9		-40 to +100	20	0.3			
2.15±0.2	10										
2.4±0.25	30										

## External Dimensions Flammability: UL94V-0 or Equivalent (Unit: mm)

1



Part Number	VR-60SS	VR-61SS	SV-2SS	SV-3SS	SV-4SS
Color indication					
Internal junction					



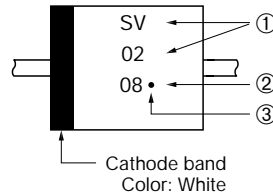
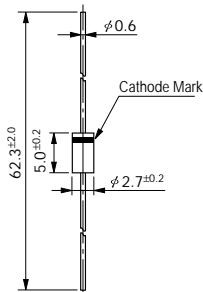
# Unsymmetrical type Silicon Varistors

V <sub>F</sub> (V)	I <sub>F</sub> (mA)	Part Number	I <sub>F</sub> (μA) max	I <sub>FSM</sub> (A)	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	R <sub>th(j-ℓ)</sub> (°C/W)	Mass (g)	Fig. No.	Page where characteristic curve is shown
				50Hz Half-cycle Sinewave Single Shot								
1.2±0.2	1	SV 02YS	200	30	-40 to +130	10	100	20	0.3			
1.5±0.25	70											
1.8±0.2	1	SV 03YS	150	16	-40 to +130	10	100	20	0.3			
2.3±0.25	70											
2.35±0.2	1	SV 04YS	100	12	-40 to +130	10	100	20	0.3			
3.0±0.3	70											
3.0±0.3	1	SV 05YS	80	10	-40 to +130	10	100	20	0.3			
3.8±0.4	70											
3.5±0.4	1	SV 06YS	70	8	-40 to +130	10	100	20	0.3			
4.5±0.45	70											

## External Dimensions

Flammability: UL94V-0 or Equivalent (Unit: mm)

1

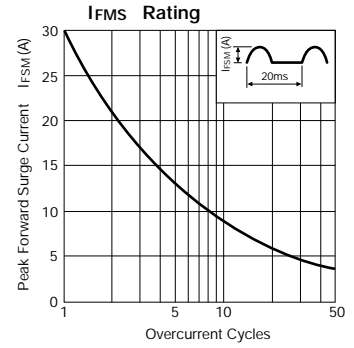
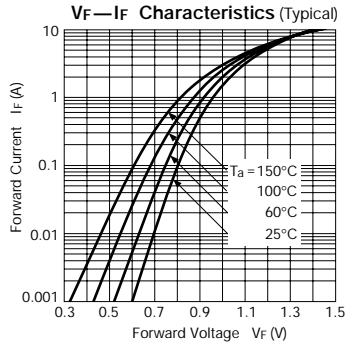
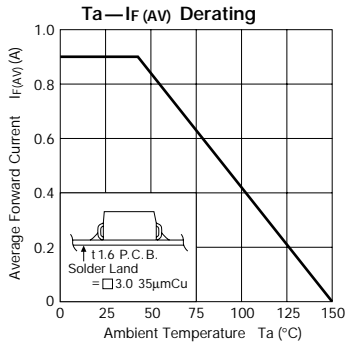


- ① Part Number
- ② Manufacturing date  
First character: Year (Last digit of year)  
Second character: Month (1 to 9, O, N, D)
- ③ Manufacturing period
  - First 10 days of month
  - Middle 10 days of month
  - Last 10 days of month

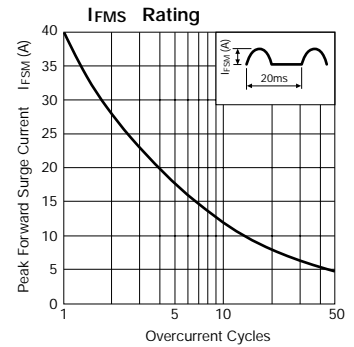
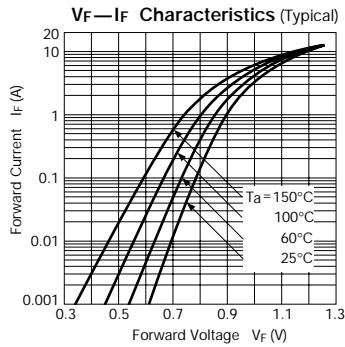
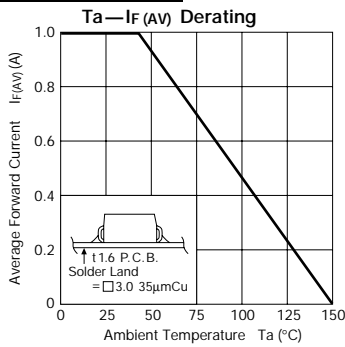
Part Number	SV 02YS	SV 03YS	SV 04YS	SV 05YS	SV 06YS
Internal junction	○ ▲ ○	○ ▲ ○	○ ▲ ○	○ ▲ ○	○ ▲ ○

# Characteristic Curves Rectifier Diodes

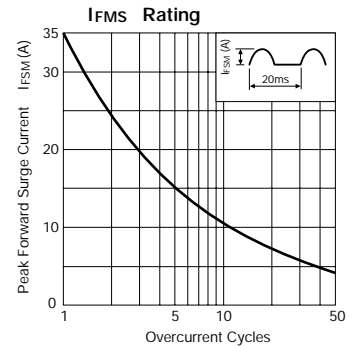
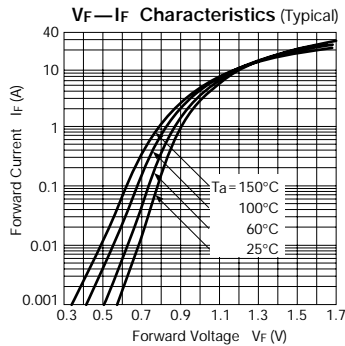
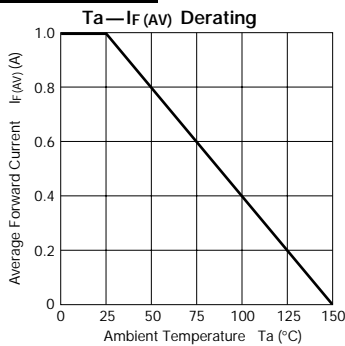
## SFPM-5 series



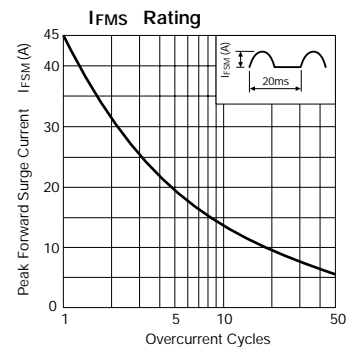
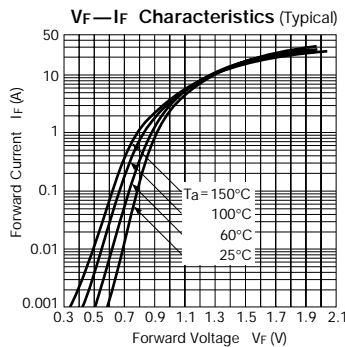
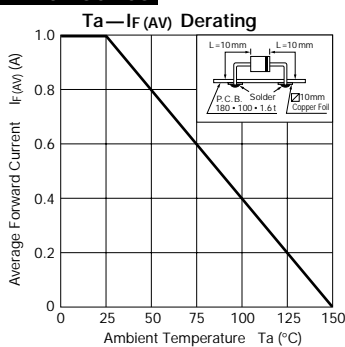
## SFPM-6 series



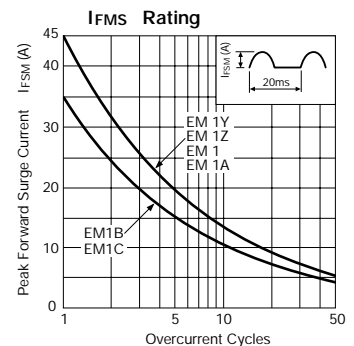
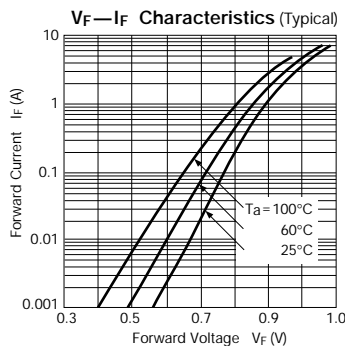
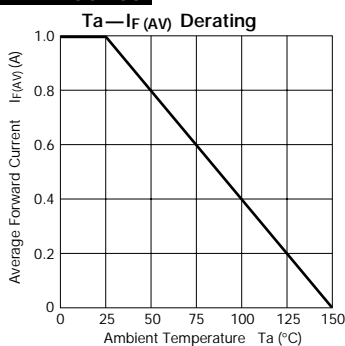
## AM01 series



## EM01 series

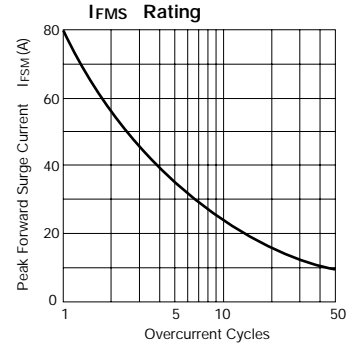
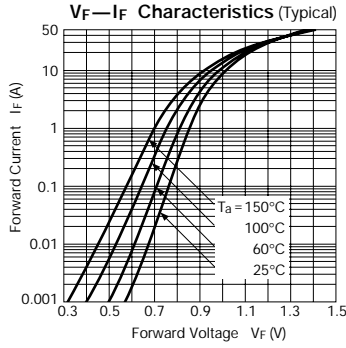
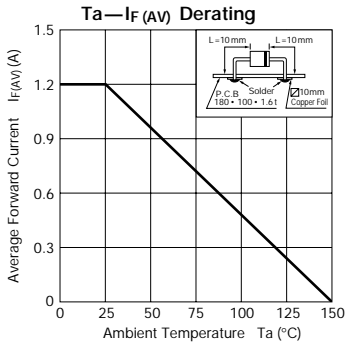


## EM 1 series

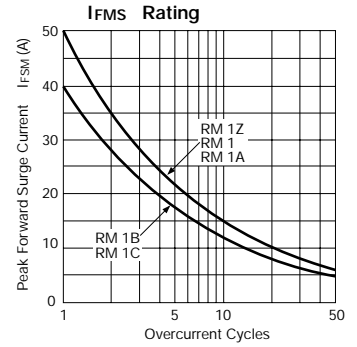
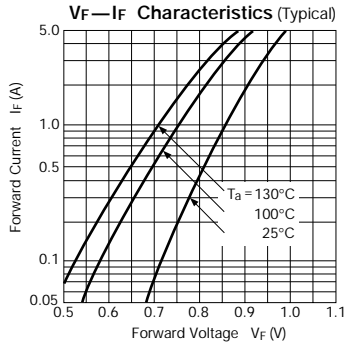
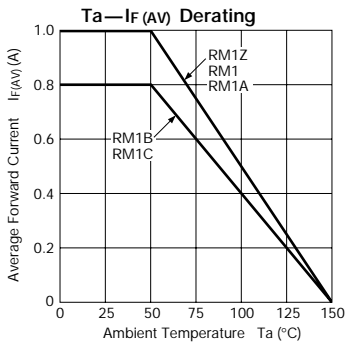


# Characteristic Curves Rectifier Diodes

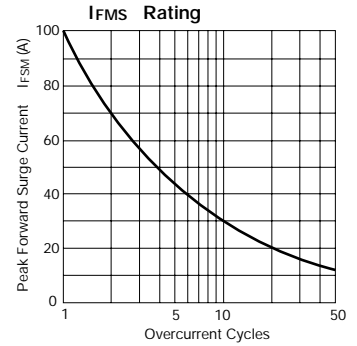
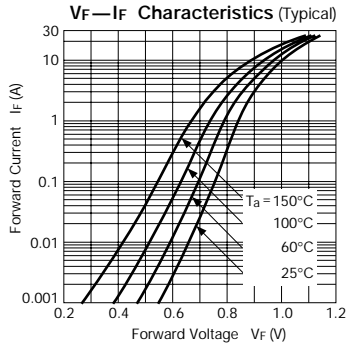
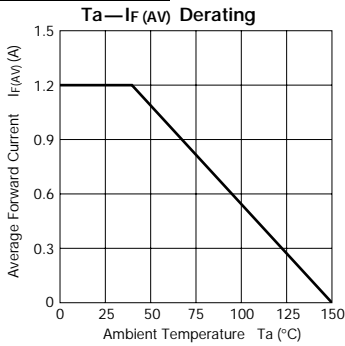
## EM 2 series



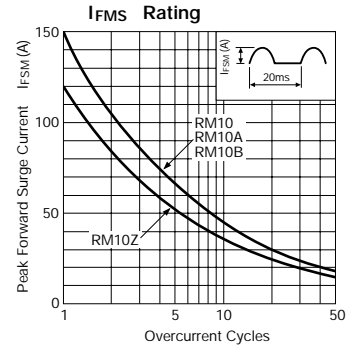
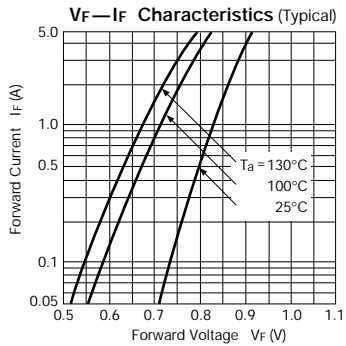
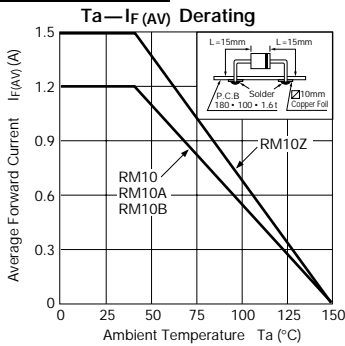
## RM 1 series



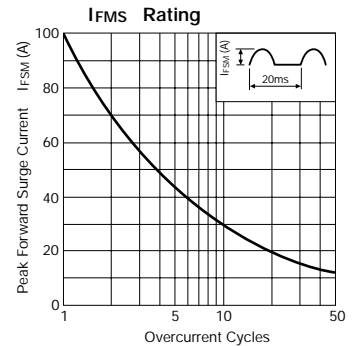
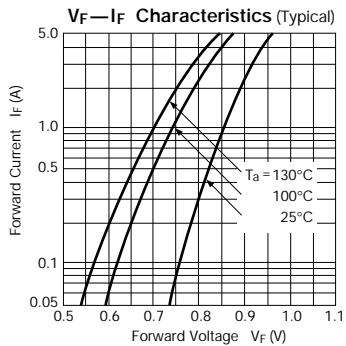
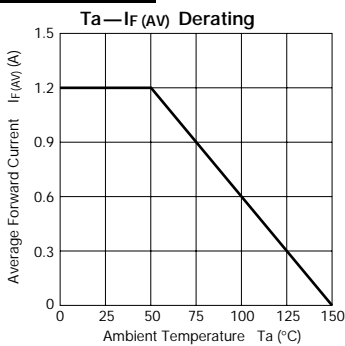
## RM 11 series



## RM 10 series

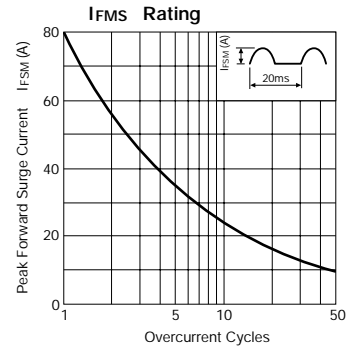
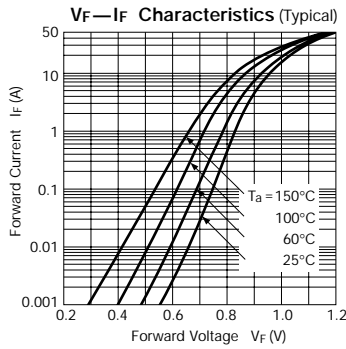
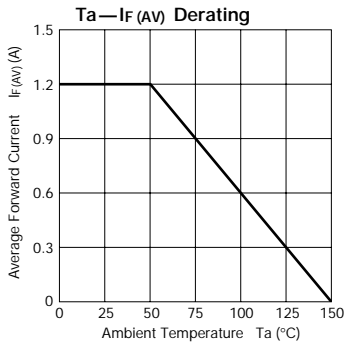


## RM 2 series

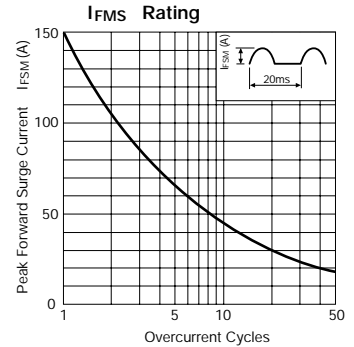
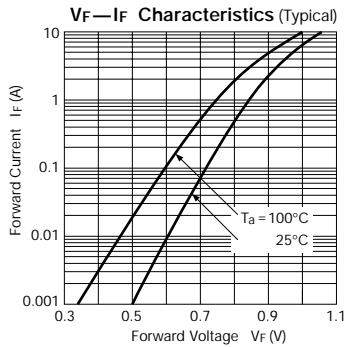
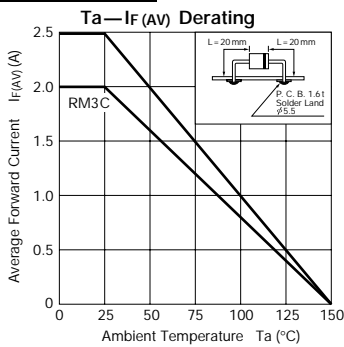


# Characteristic Curves Rectifier Diodes

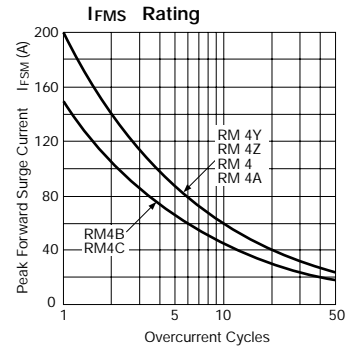
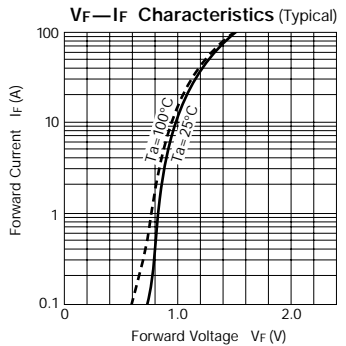
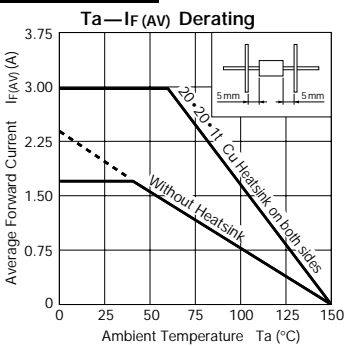
## RO 2 series



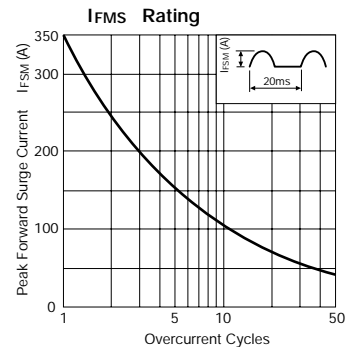
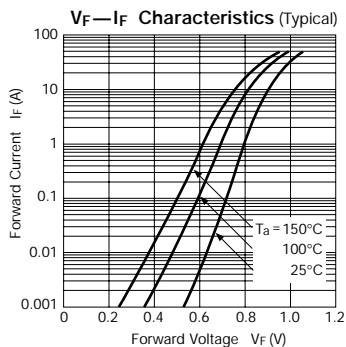
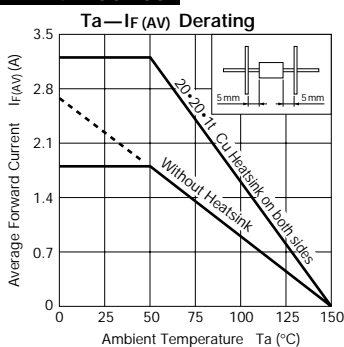
## RM 3 series



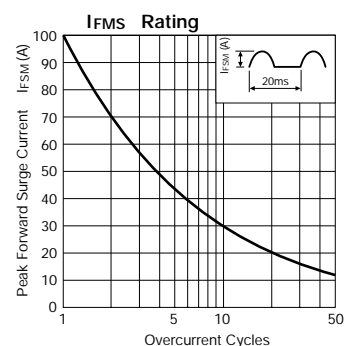
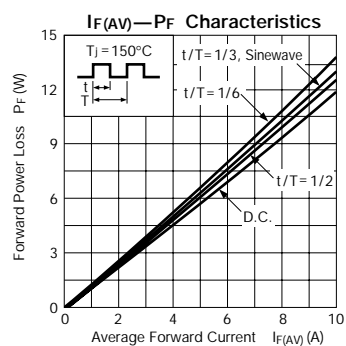
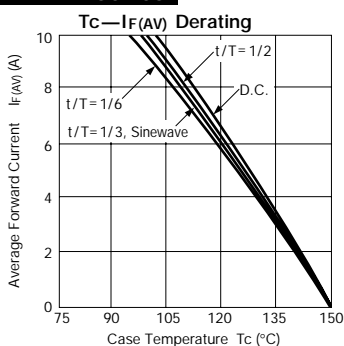
## RM 4 series



## RM 4M series

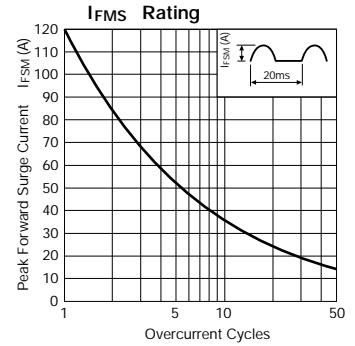
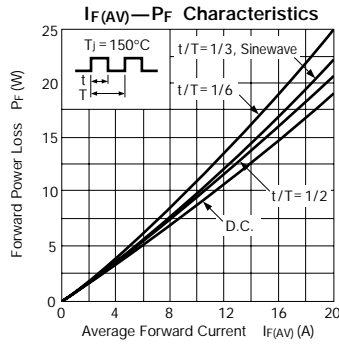
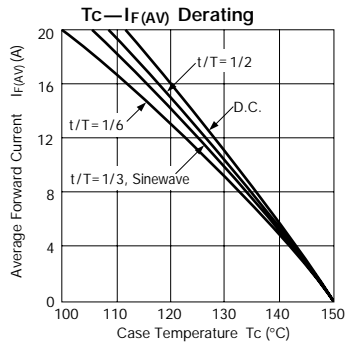


## FMM-2 series

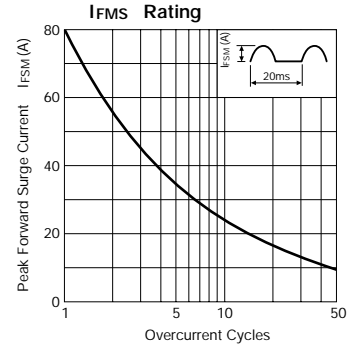
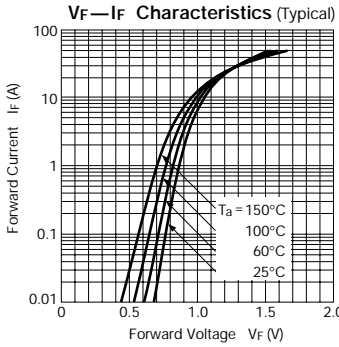
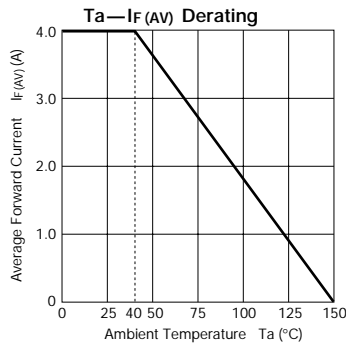


# Characteristic Curves Rectifier Diodes

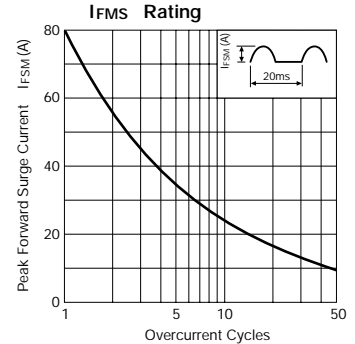
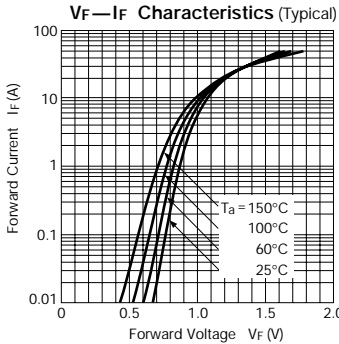
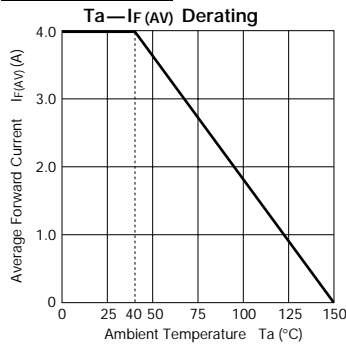
## FMM-3 series



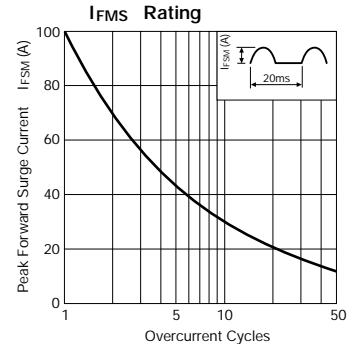
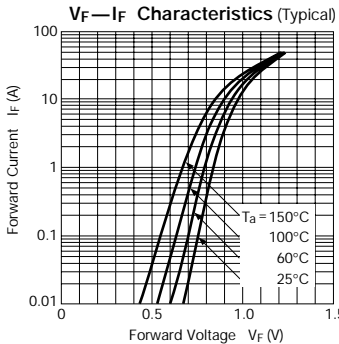
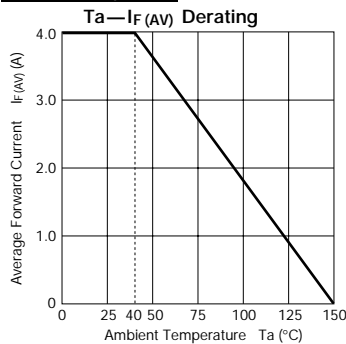
## RBV-401, 402



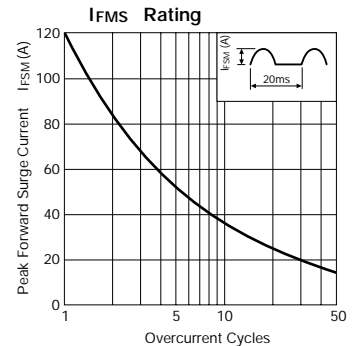
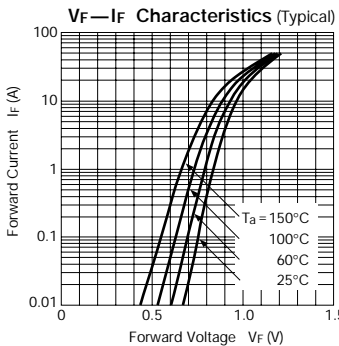
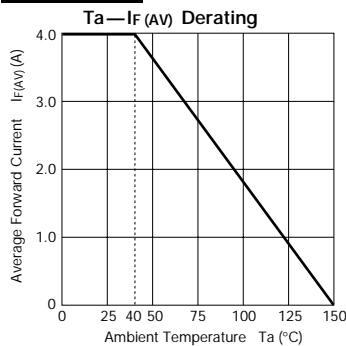
## RBV-404, 406



## RBV-408, 40C

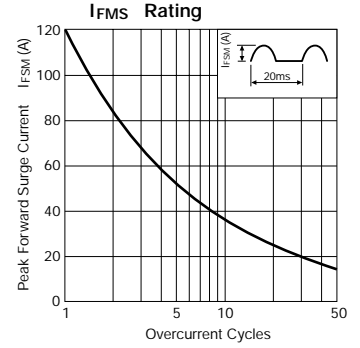
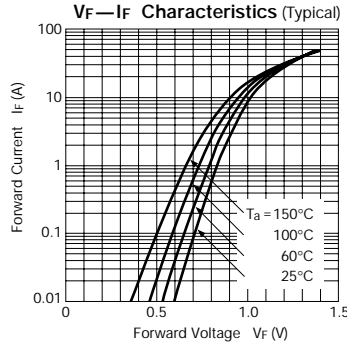
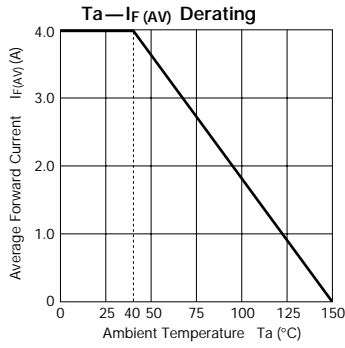


## RBV-406M

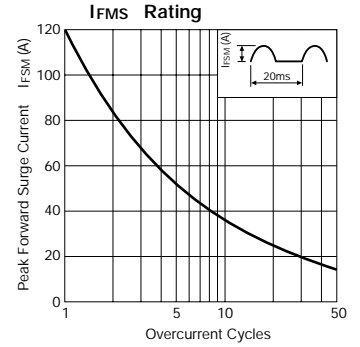
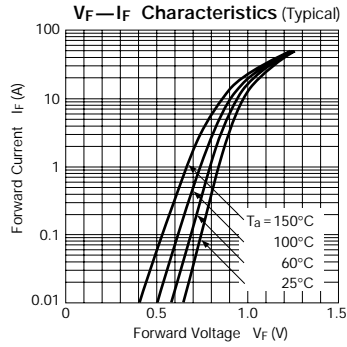
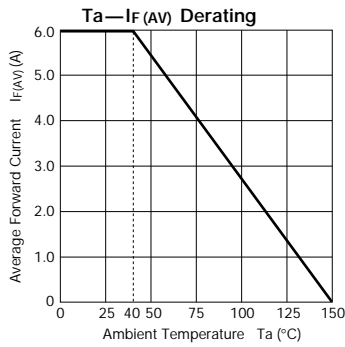


# Characteristic Curves Rectifier Diodes

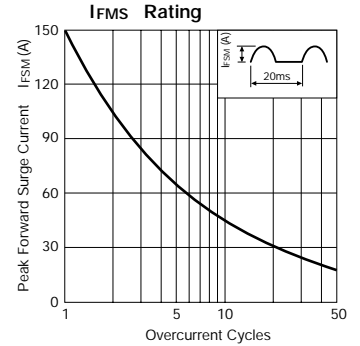
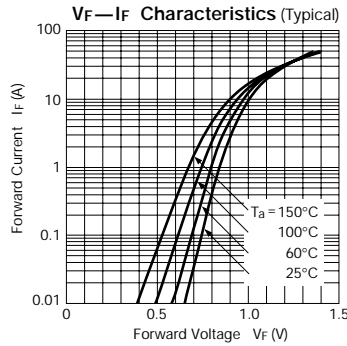
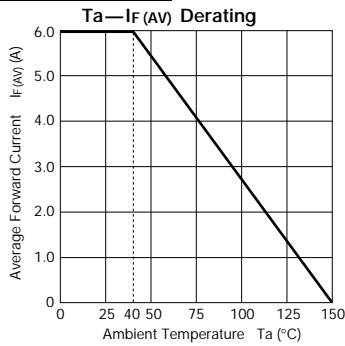
## RBV-406H



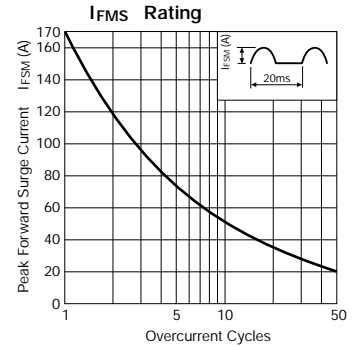
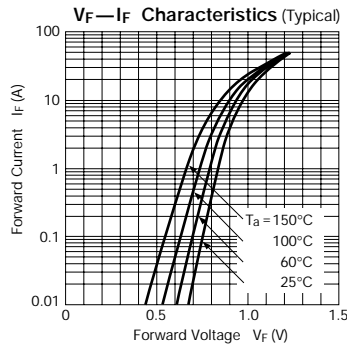
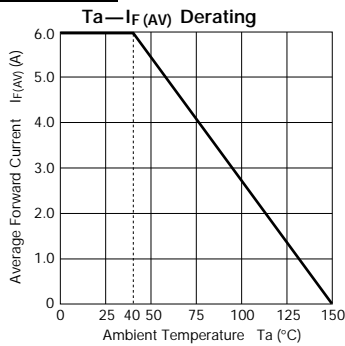
## RBV-601, 602



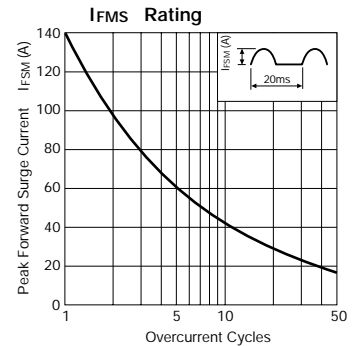
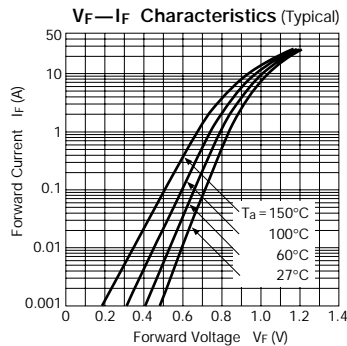
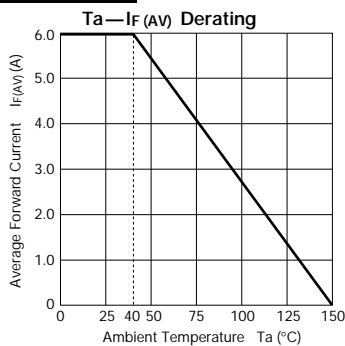
## RBV-604, 606



## RBV-608

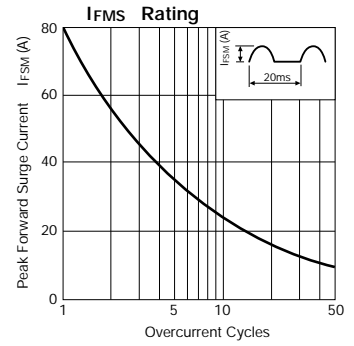
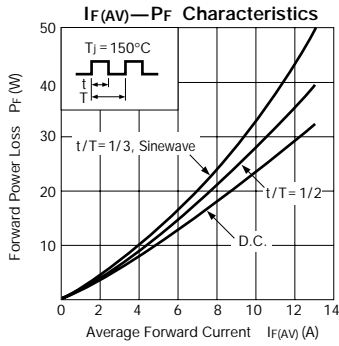
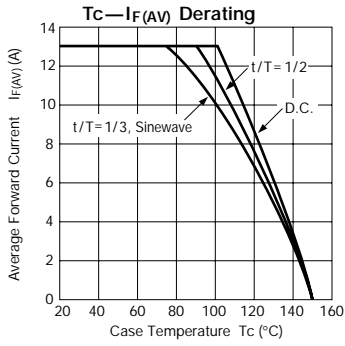


## RBV-606H

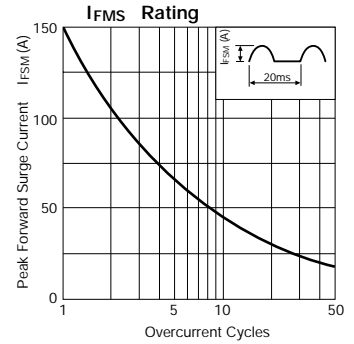
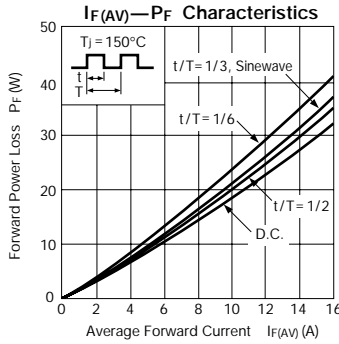
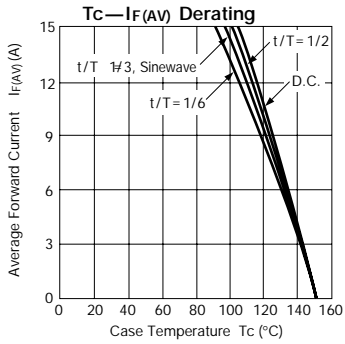


# Characteristic Curves Rectifier Diodes

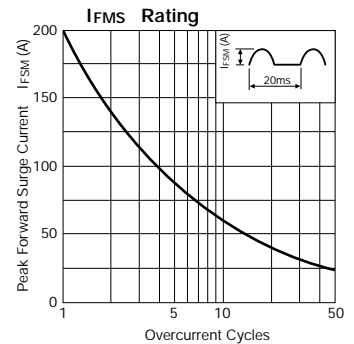
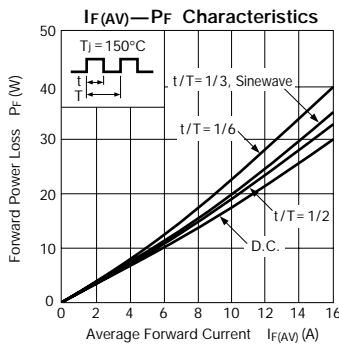
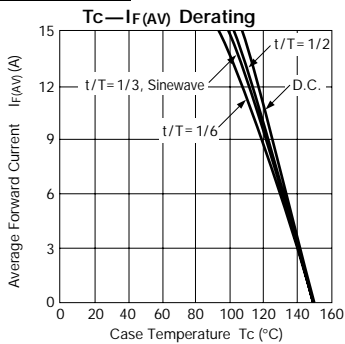
## RBV-1306



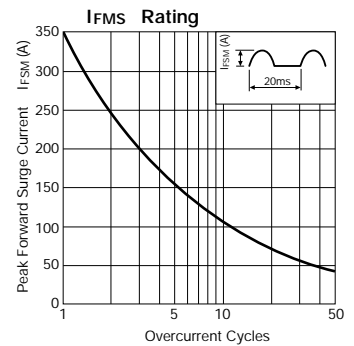
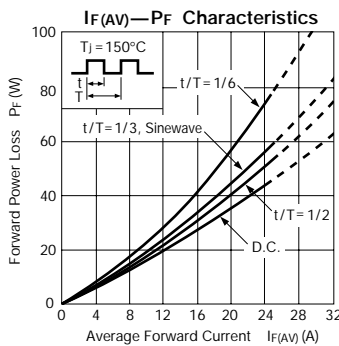
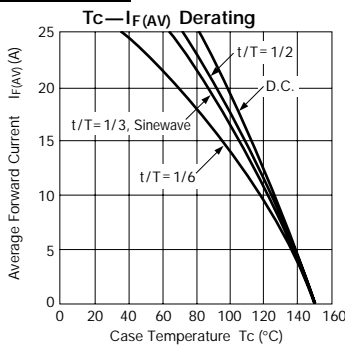
## RBV-1506S



## RBV-1506

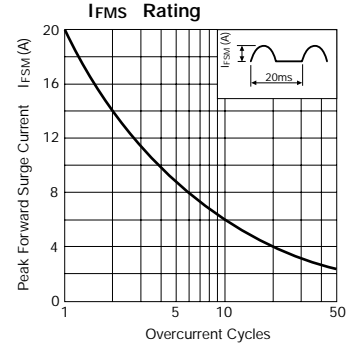
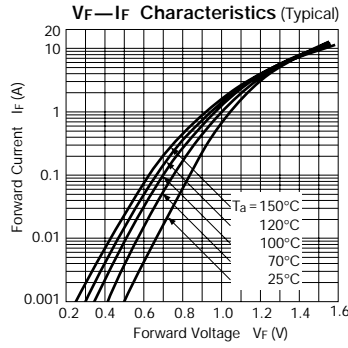
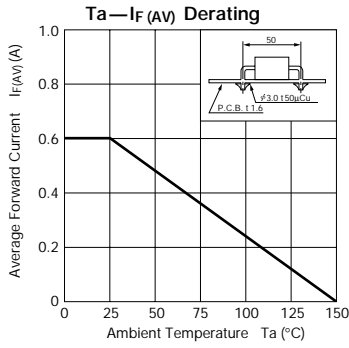


## RBV-2506

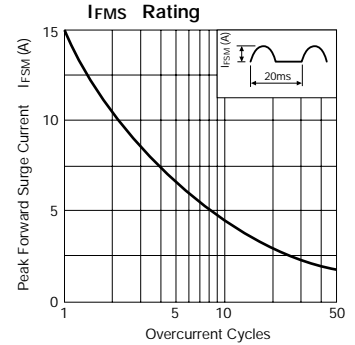
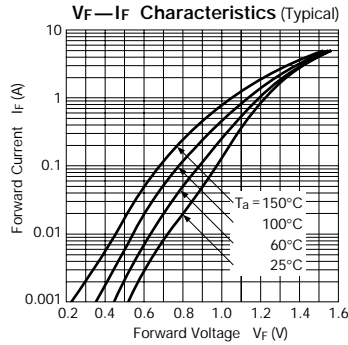
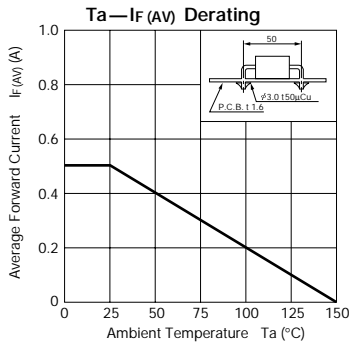


# Characteristic Curves Fast-Recovery Rectifier Diodes

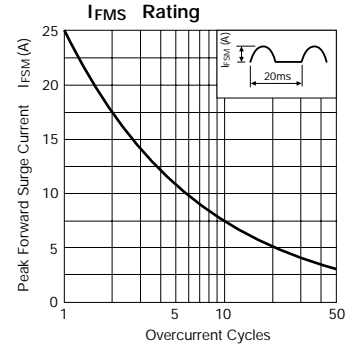
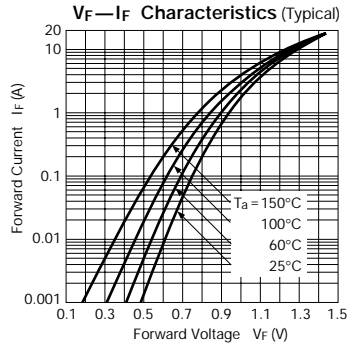
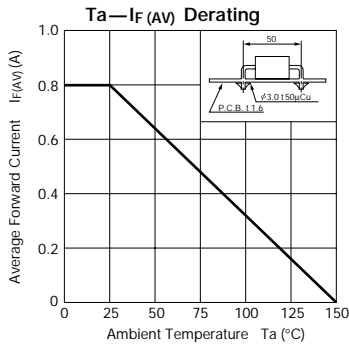
## AS01 series



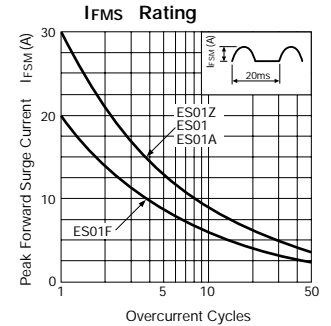
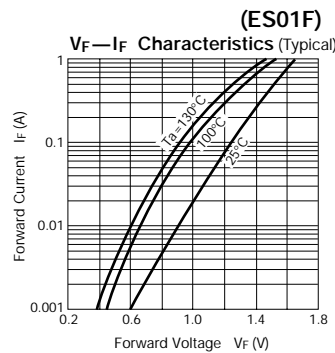
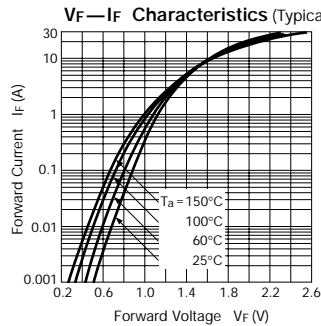
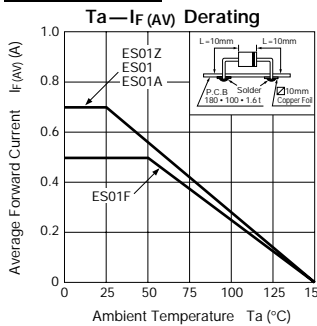
## AU01 series



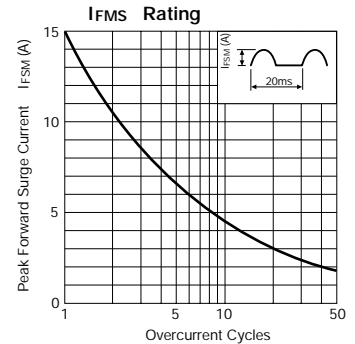
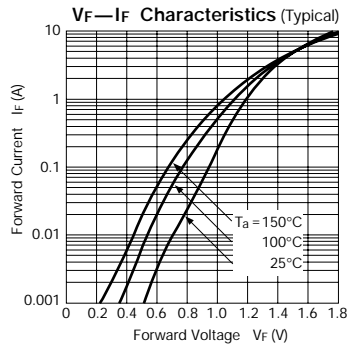
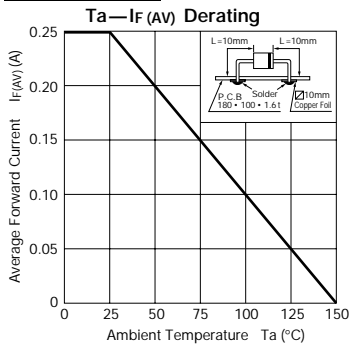
## AU02 series



## ES01 series



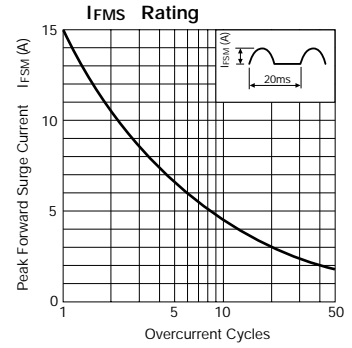
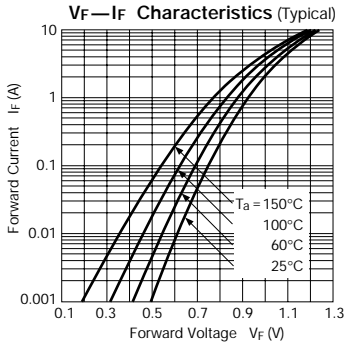
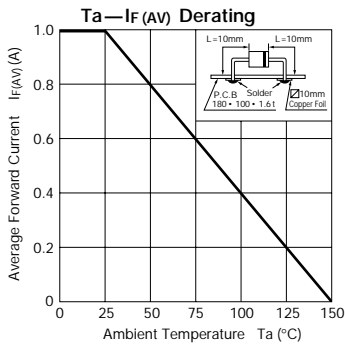
## EU01 series



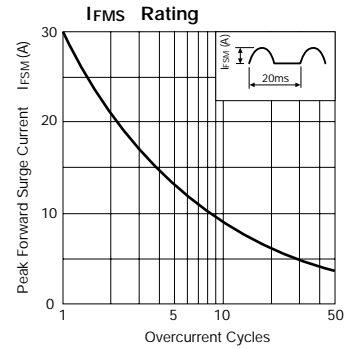
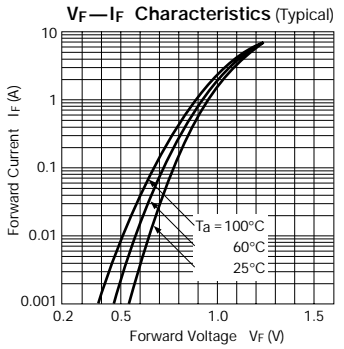
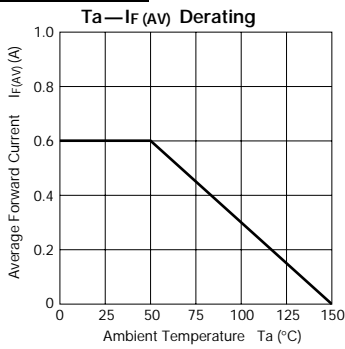


# Fast-Recovery Rectifier Diodes

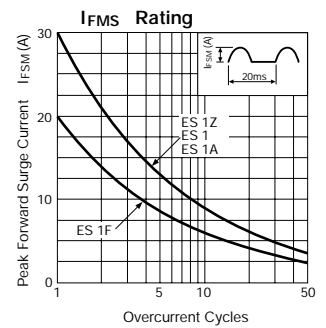
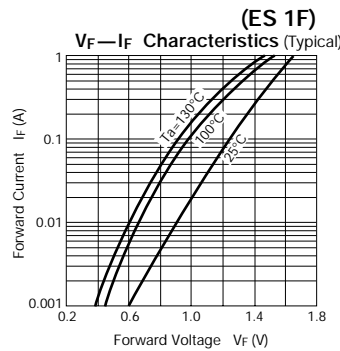
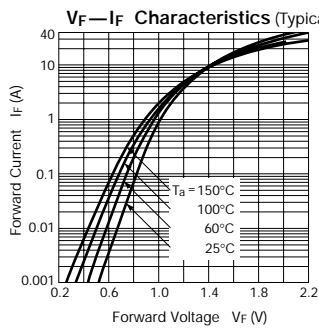
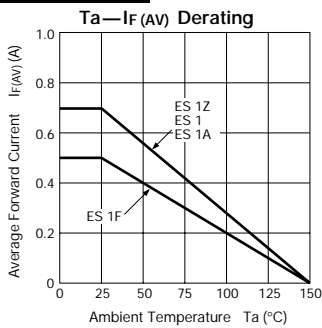
## EU02 series



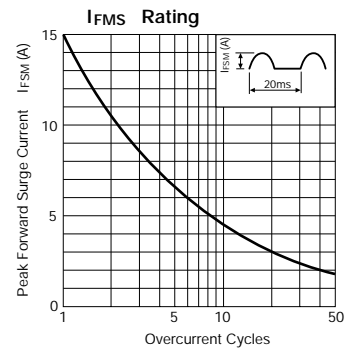
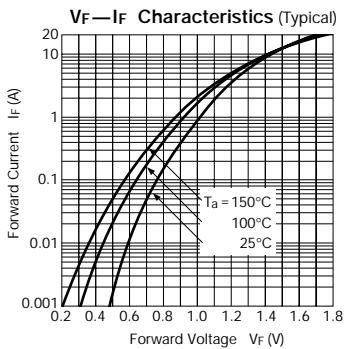
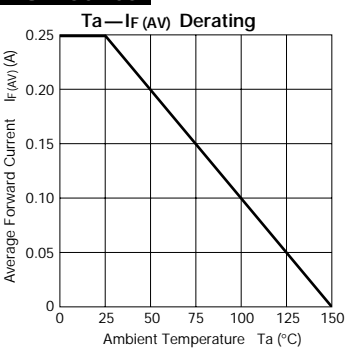
## EH 1 series



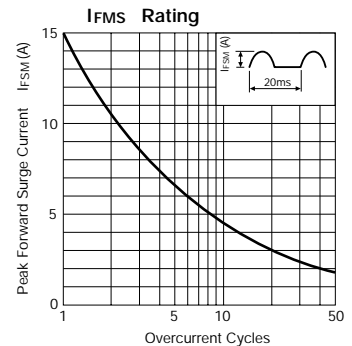
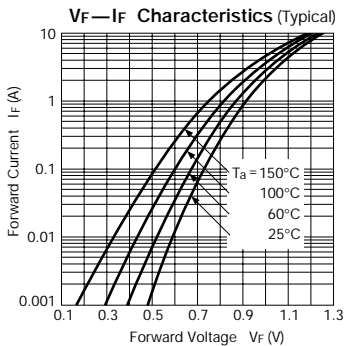
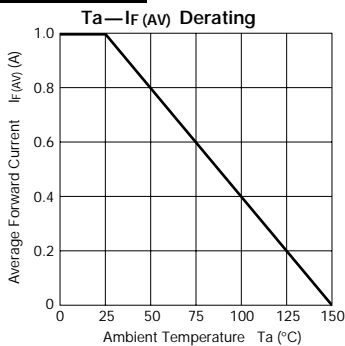
## ES 1 series



## EU 1 series

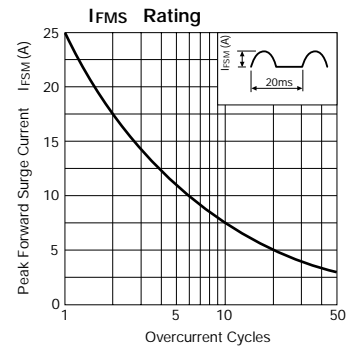
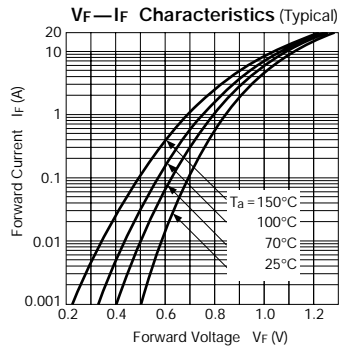
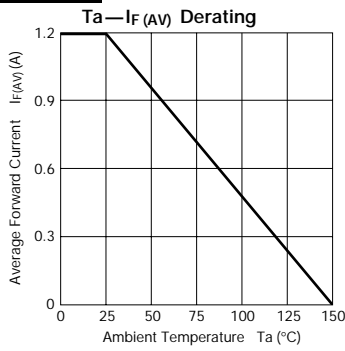


## EU 2 series

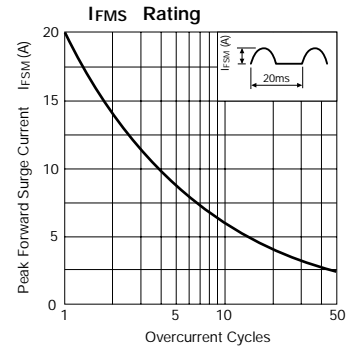
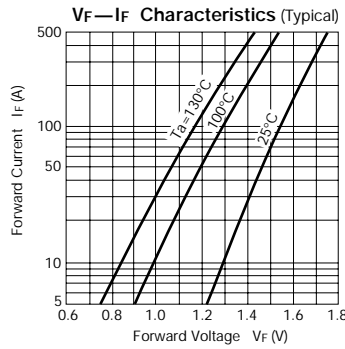
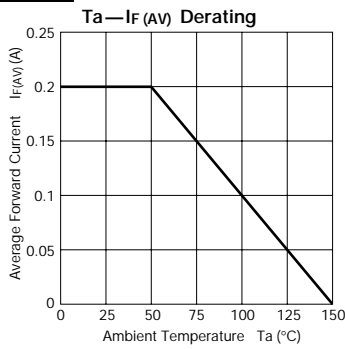


# Characteristic Curves Fast-Recovery Rectifier Diodes

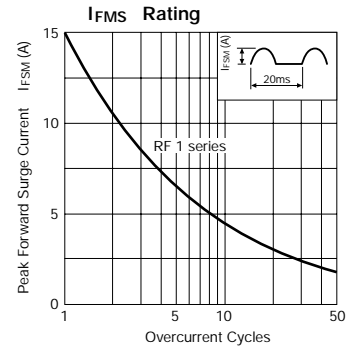
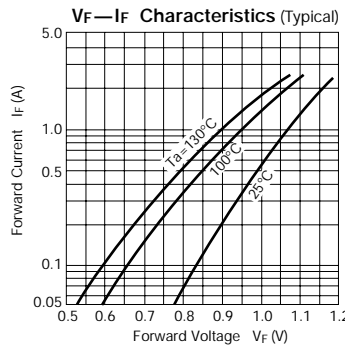
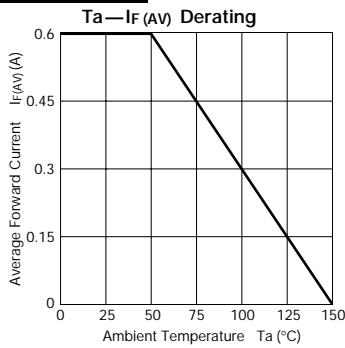
## EU 2YX



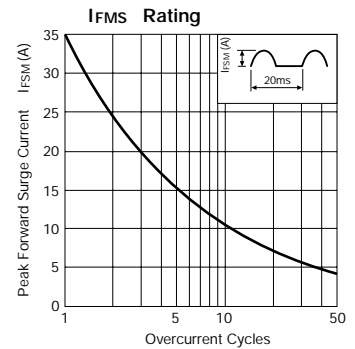
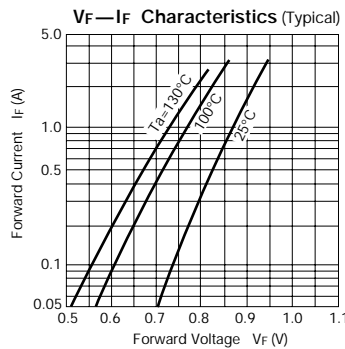
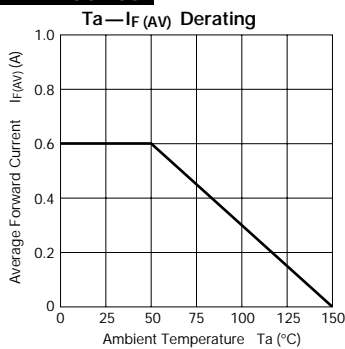
## RC 2



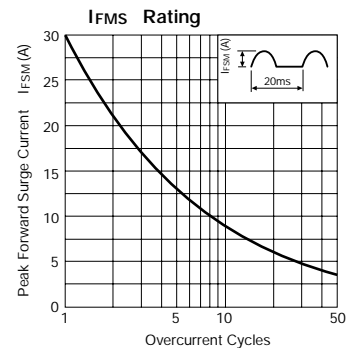
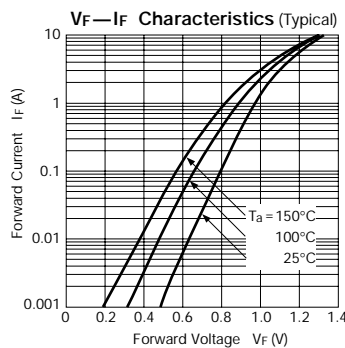
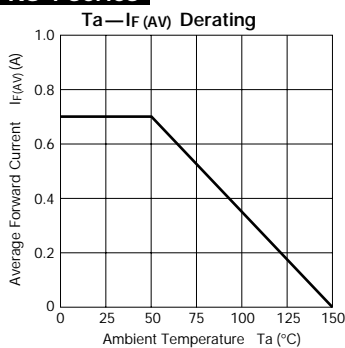
## RF 1 series



## RH 1 series

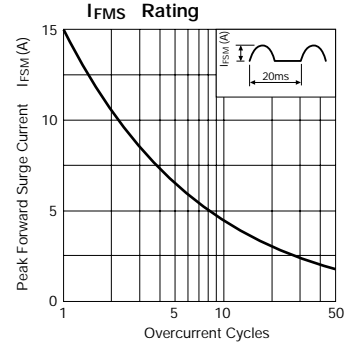
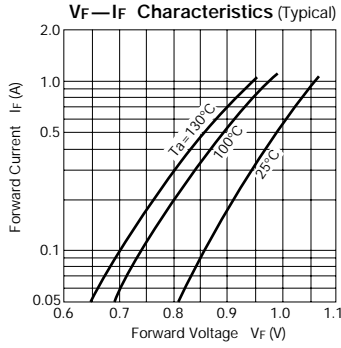
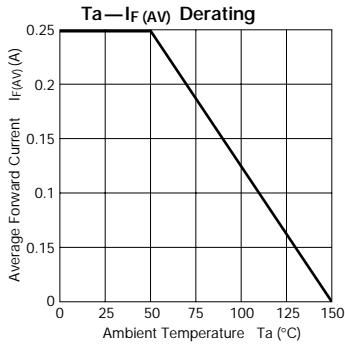


## RS 1 series

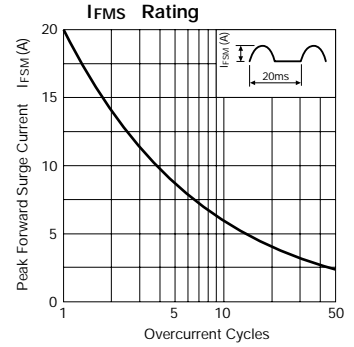
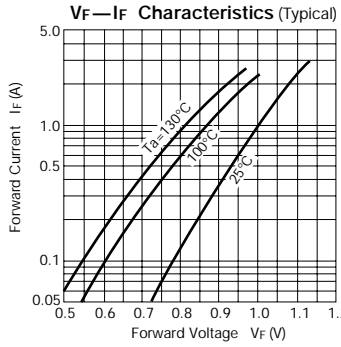
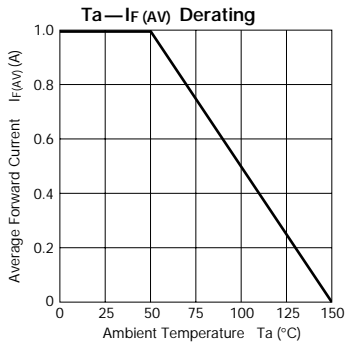


# Fast-Recovery Rectifier Diodes

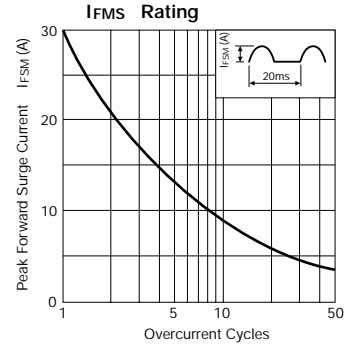
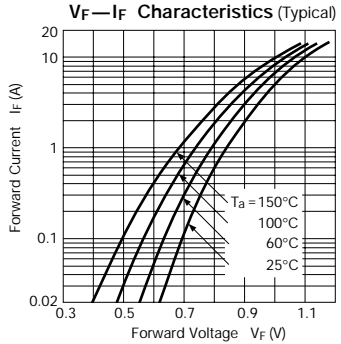
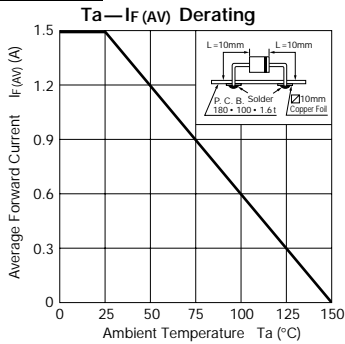
## RU 1 series



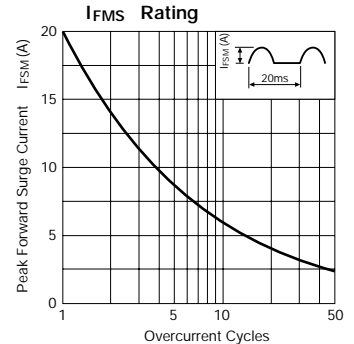
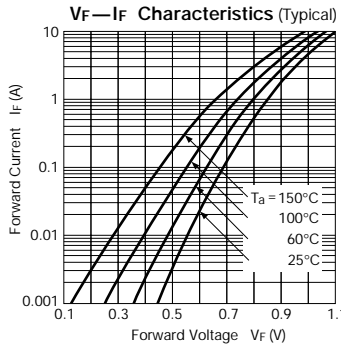
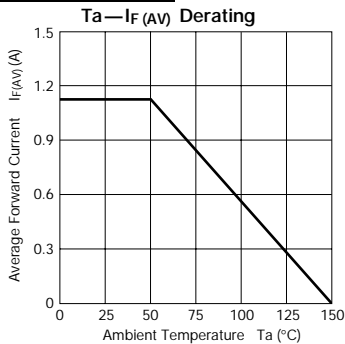
## RU 2 series



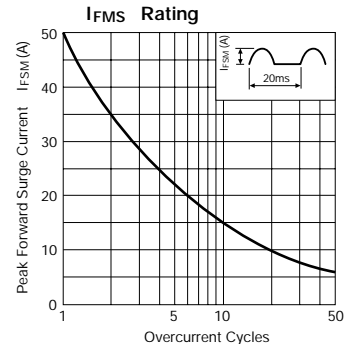
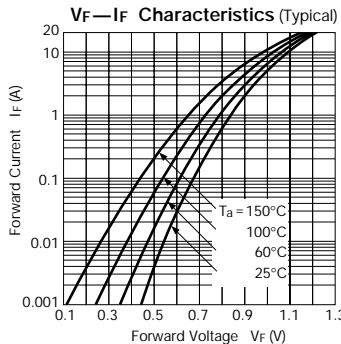
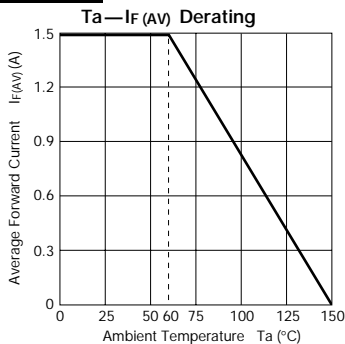
## RU 2YX



## RU 2M series

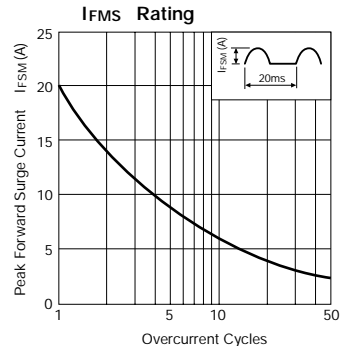
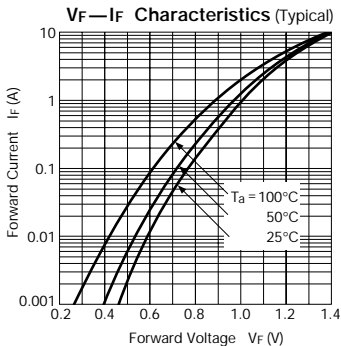
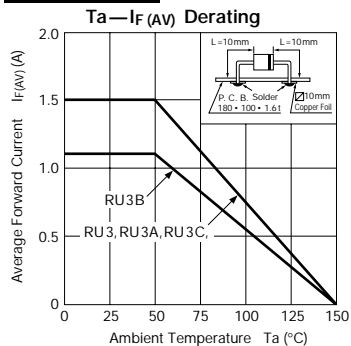


## RU 20A

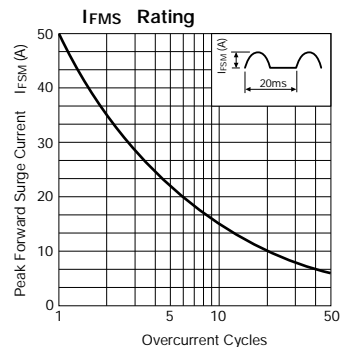
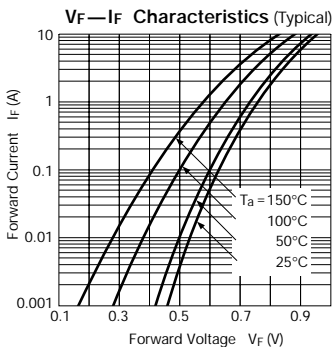
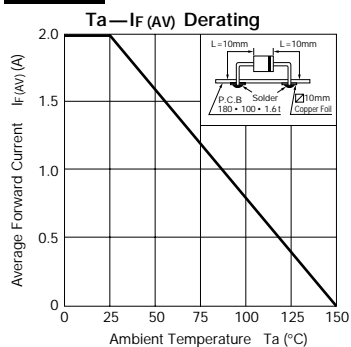


# Characteristic Curves Fast-Recovery Rectifier Diodes

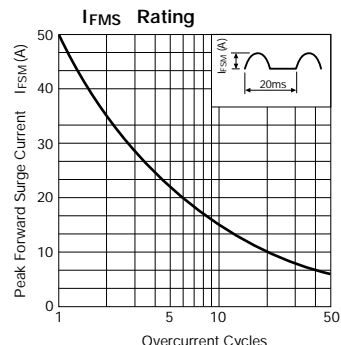
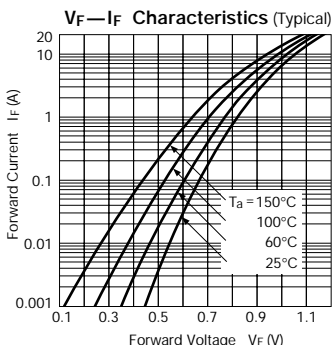
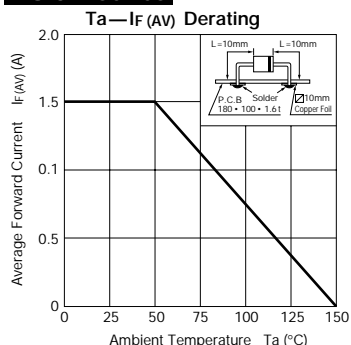
## RU 3 series



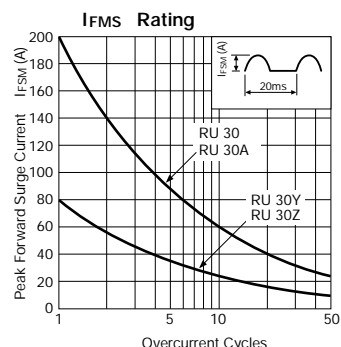
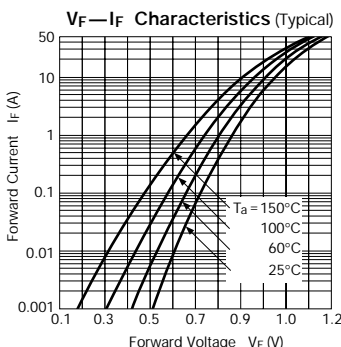
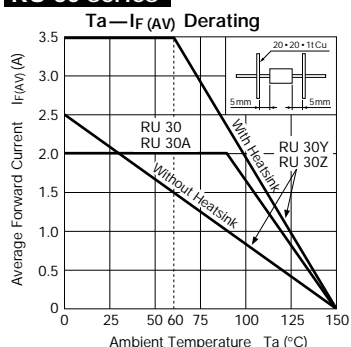
## RU 3YX



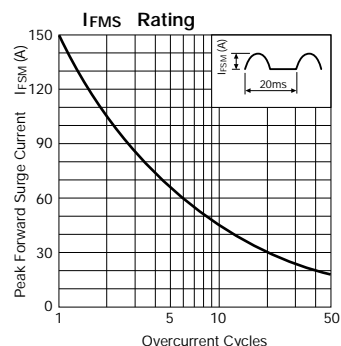
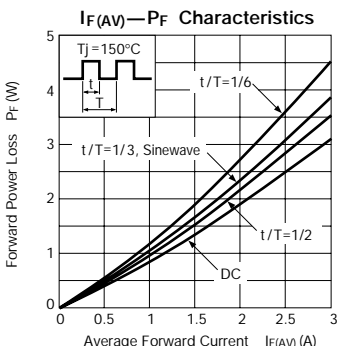
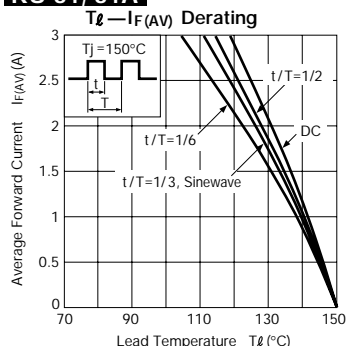
## RU 3M series



## RU 30 series

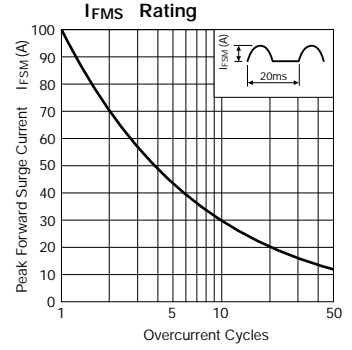
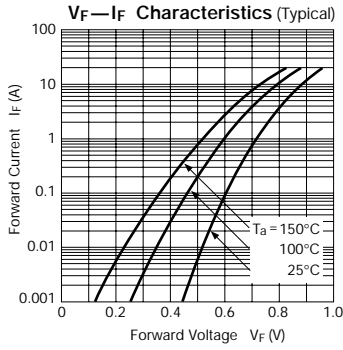
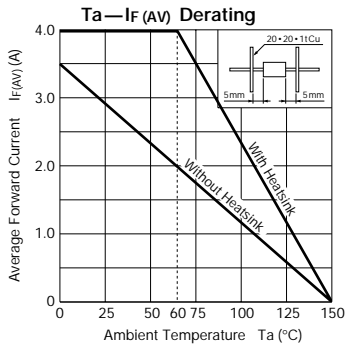


## RU 31, 31A

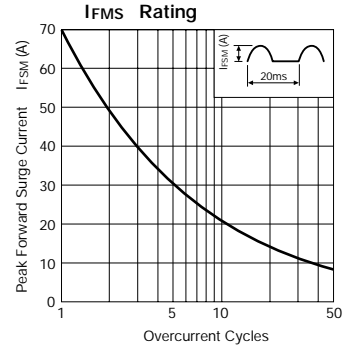
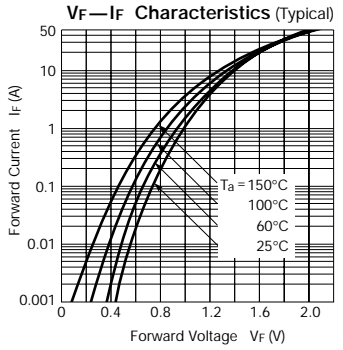
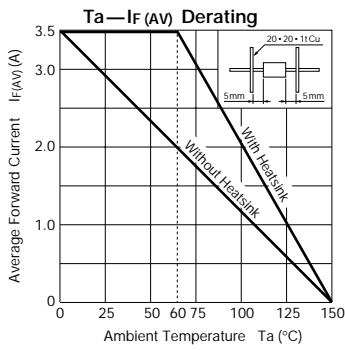


# Fast-Recovery Rectifier Diodes

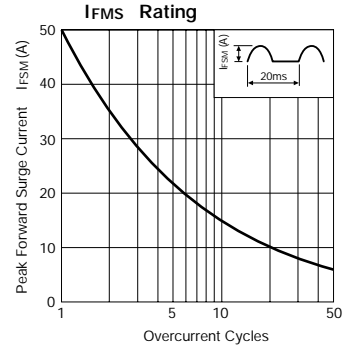
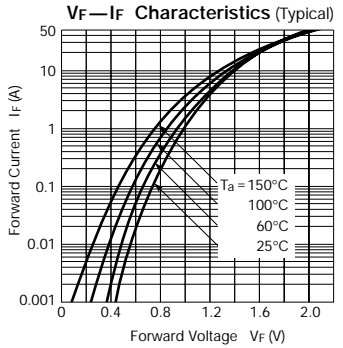
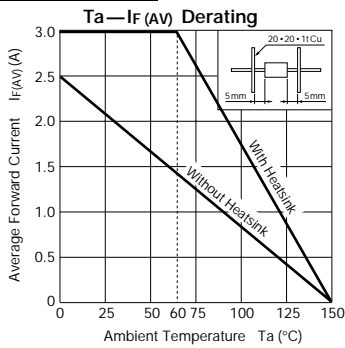
## RU 4YX



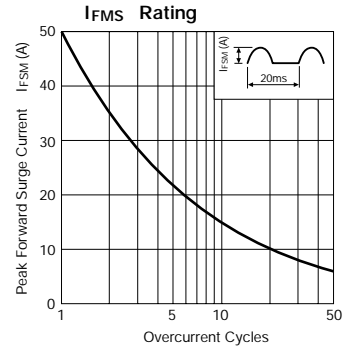
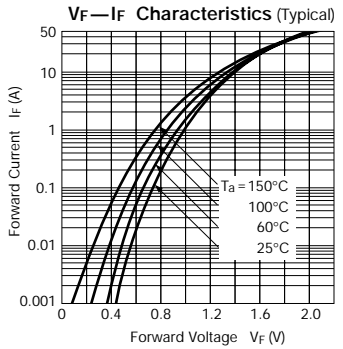
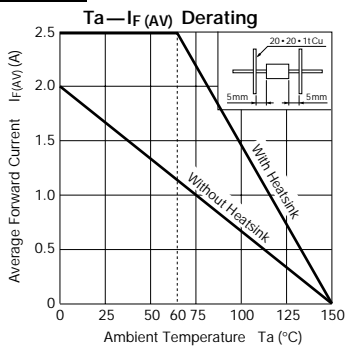
## RU 4Y, 4Z



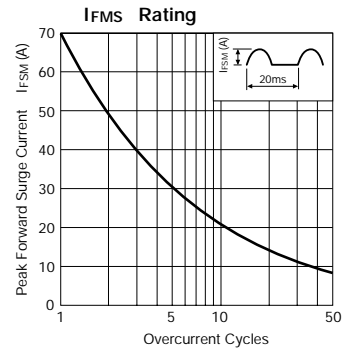
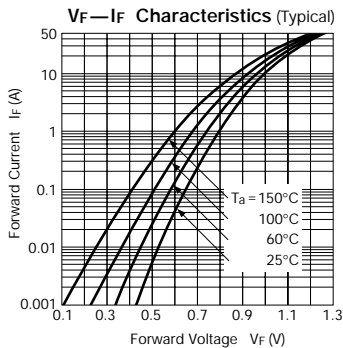
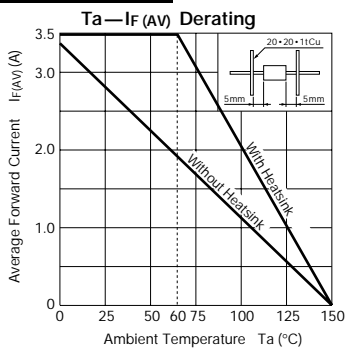
## RU 4, 4A, 4B



## RU 4C

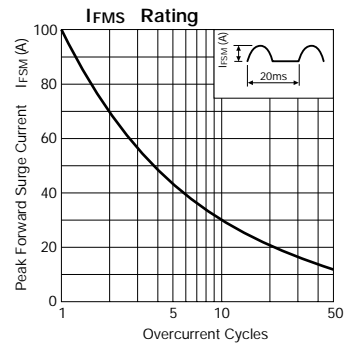
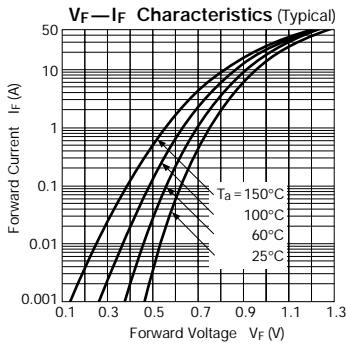
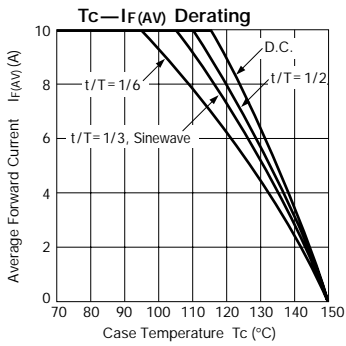


## RU 4M series

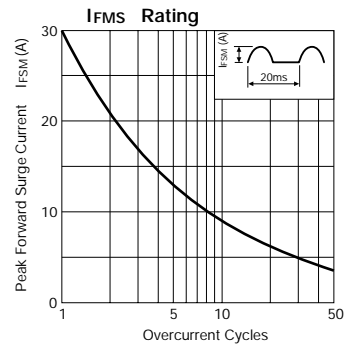
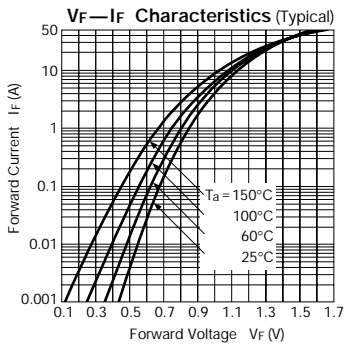
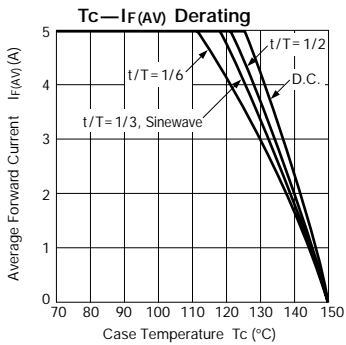


# Fast-Recovery Rectifier Diodes

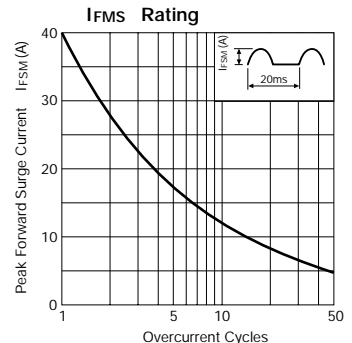
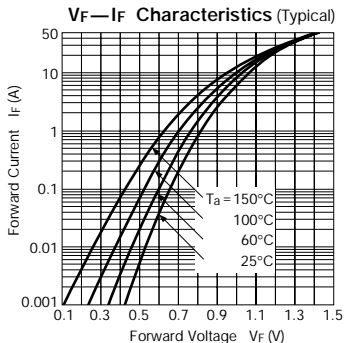
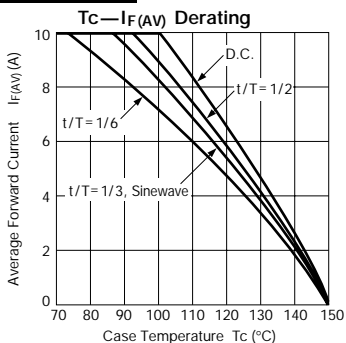
## FMU-G2YXS



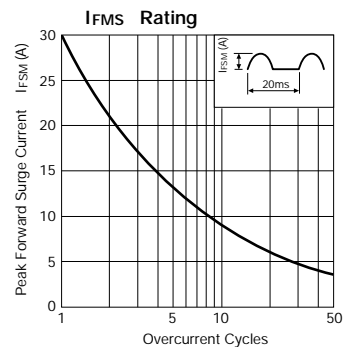
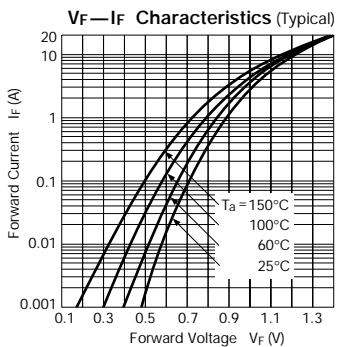
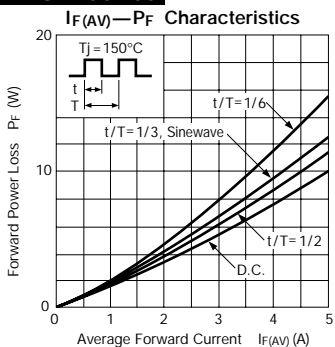
## FMU-G16S



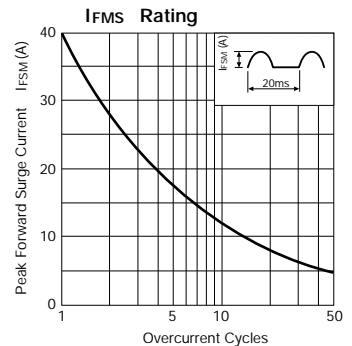
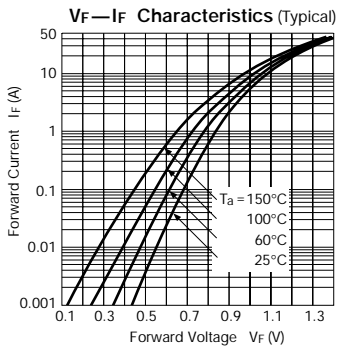
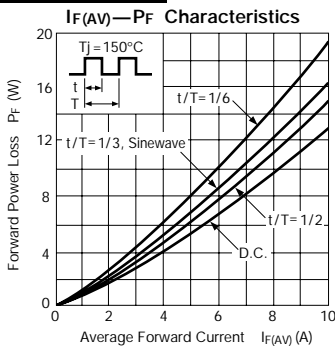
## FMU-G26S



## FMU-1 series

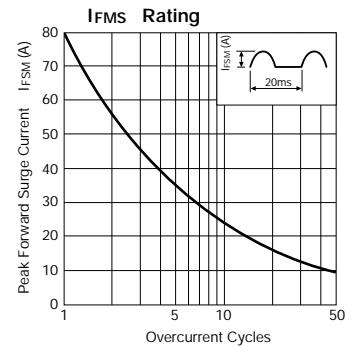
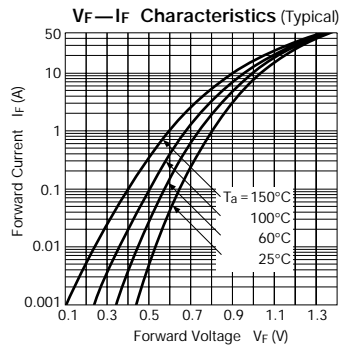
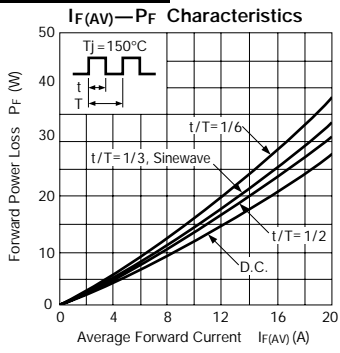


## FMU-2 series



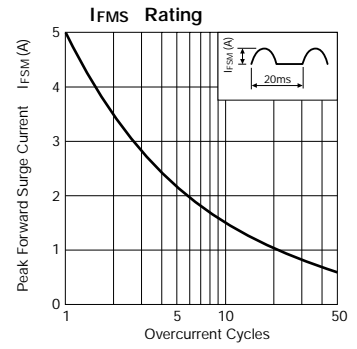
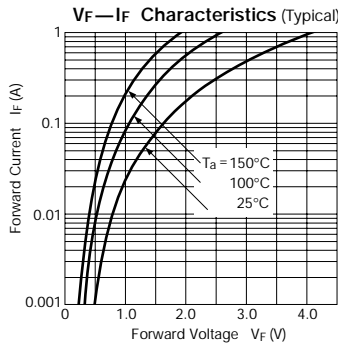
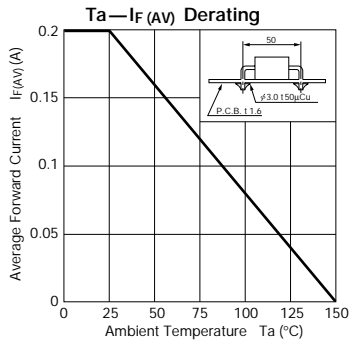
# Fast-Recovery Rectifier Diodes

## FMU-3 series

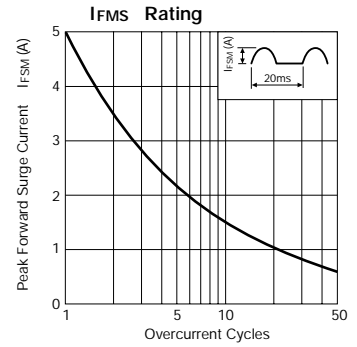
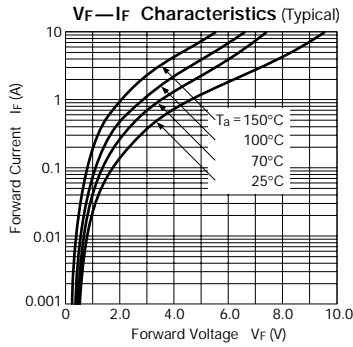
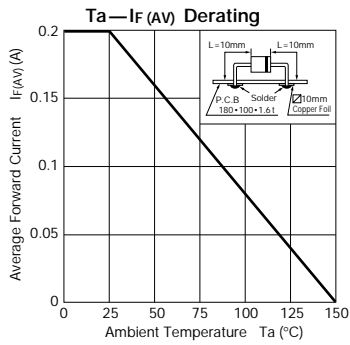


# Characteristic Curves Ultra-Fast-Recovery Rectifier Diodes

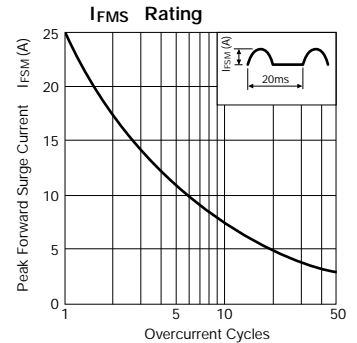
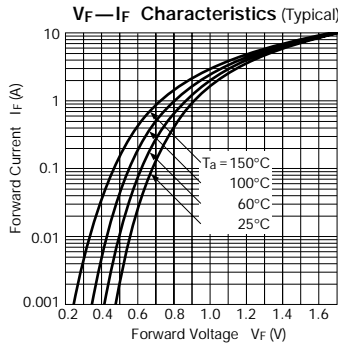
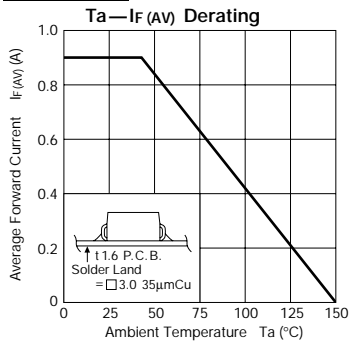
## AP01C



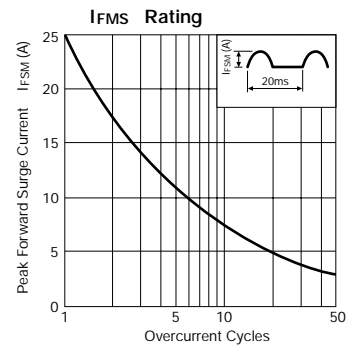
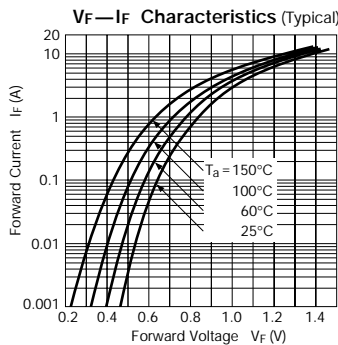
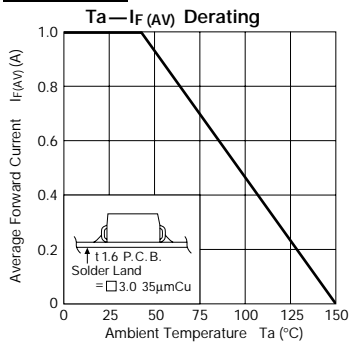
## EP01C



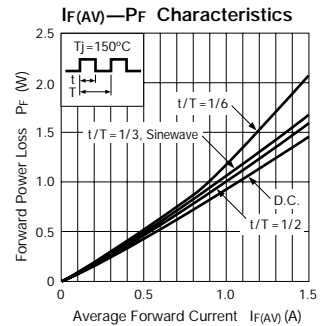
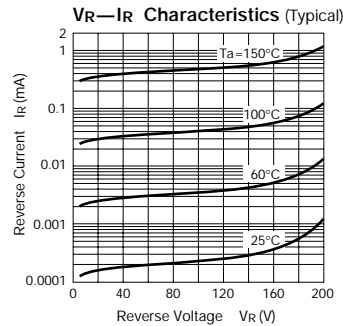
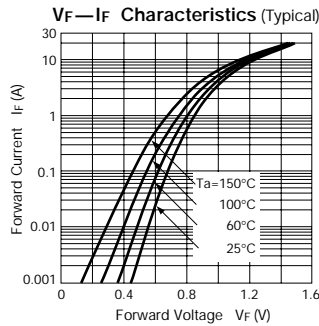
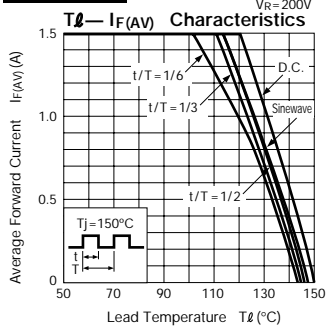
## SFPL—52



## SFPL—62



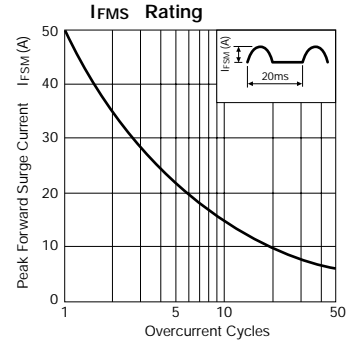
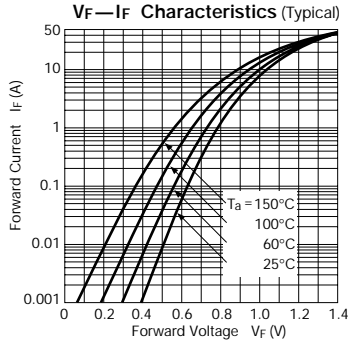
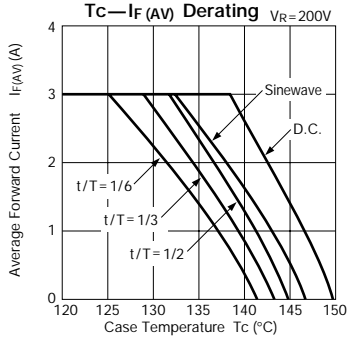
## SFPX—62



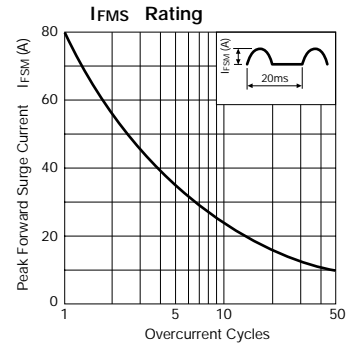
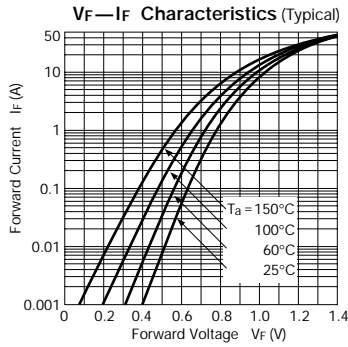
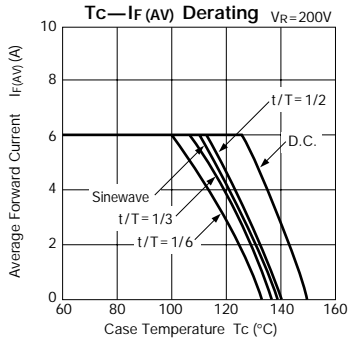


# Ultra-Fast-Recovery Rectifier Diodes

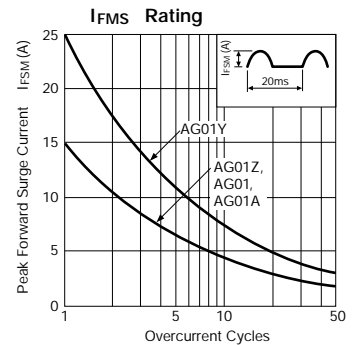
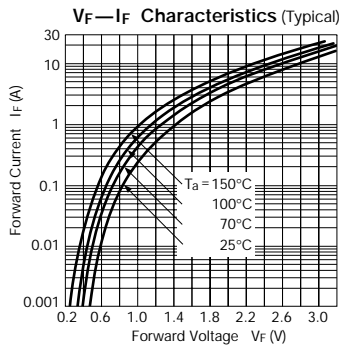
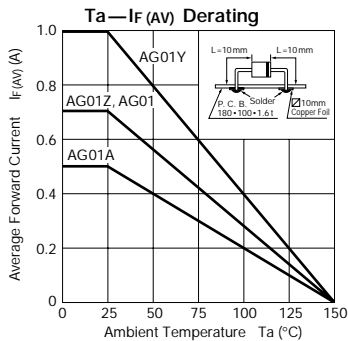
## SPX-G32S



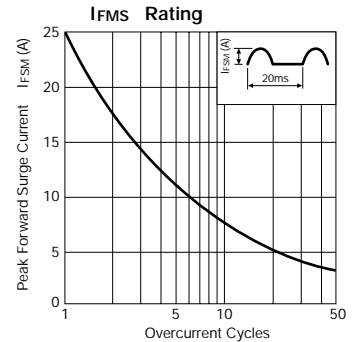
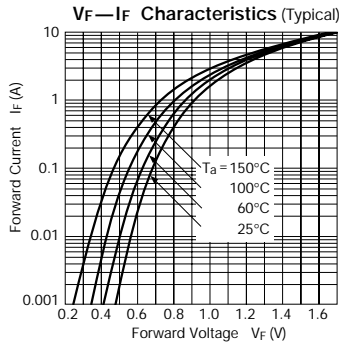
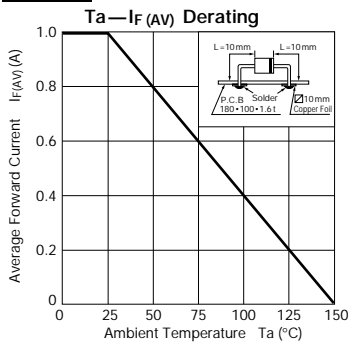
## SPX-62S



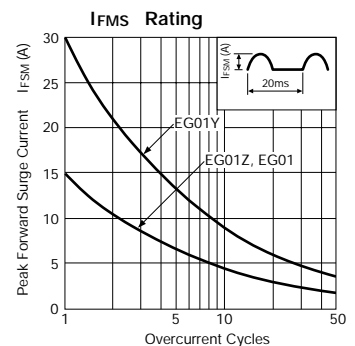
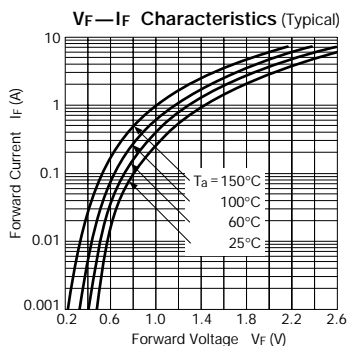
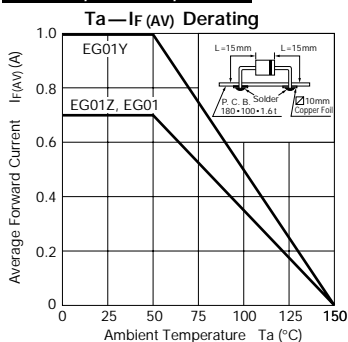
## AG01 series



## AL01Z

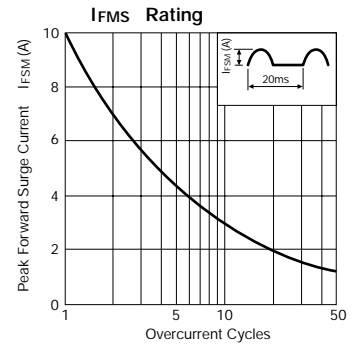
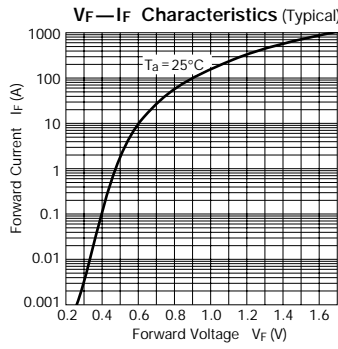
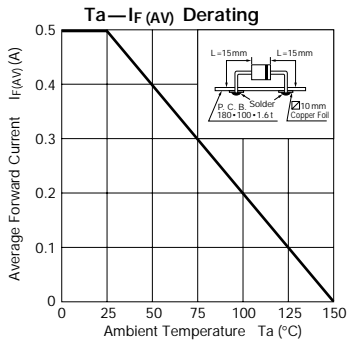


## EG01Y, EG01Z, EG01

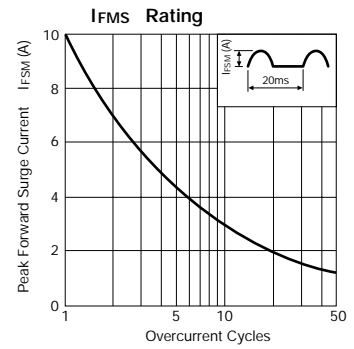
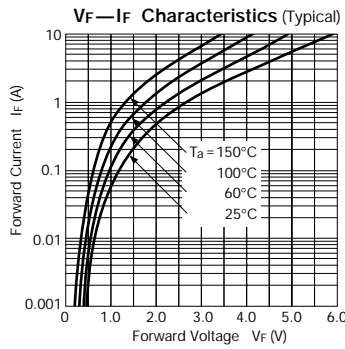
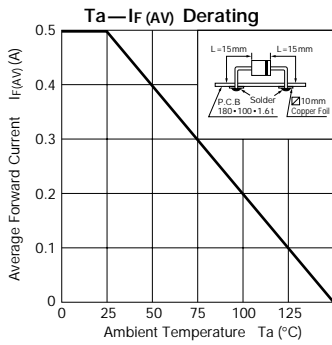


# Ultra-Fast-Recovery Rectifier Diodes

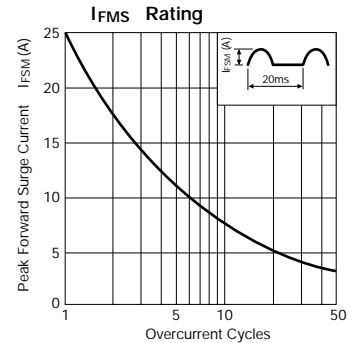
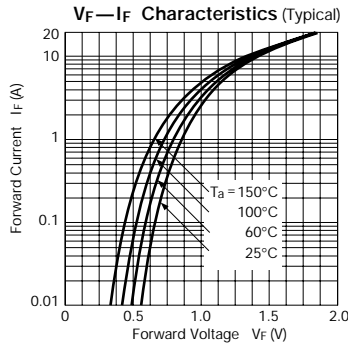
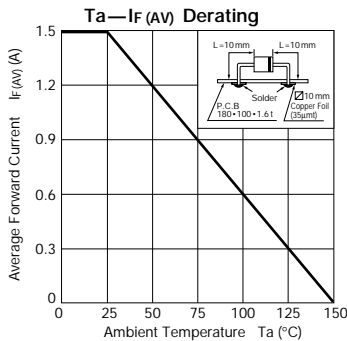
## EG01A



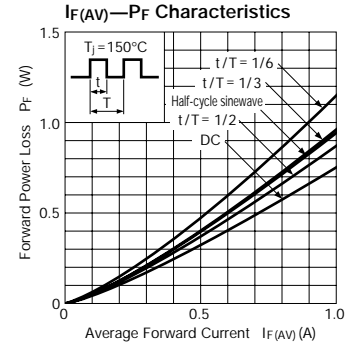
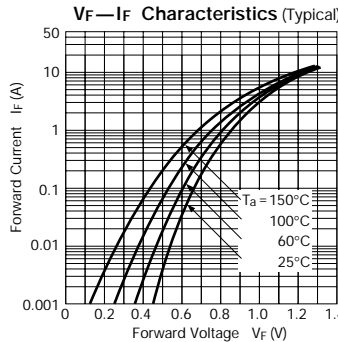
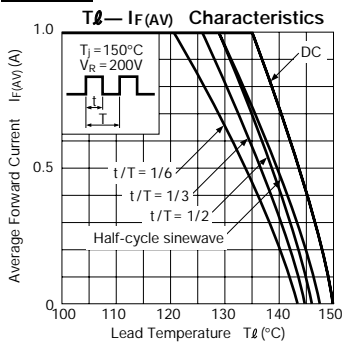
## EG01C



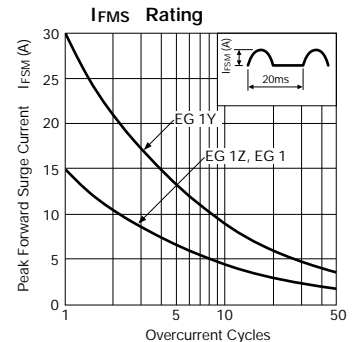
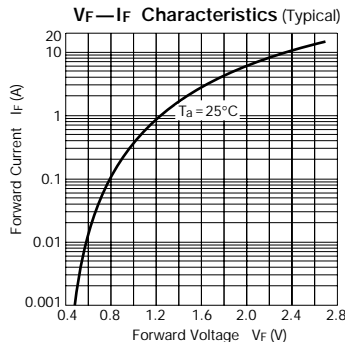
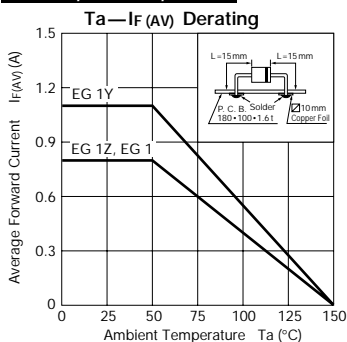
## EL02Z



## EN01Z

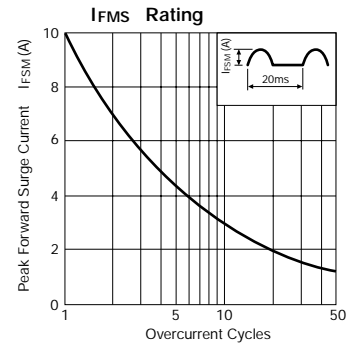
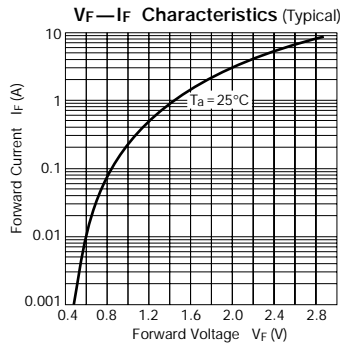
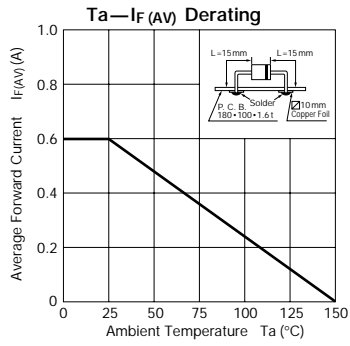


## EG 1Y, EG 1Z, EG 1

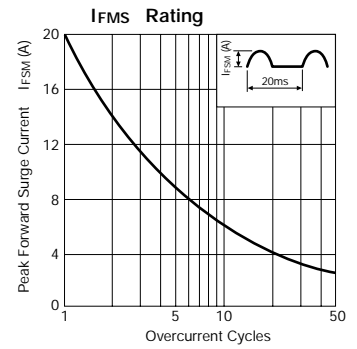
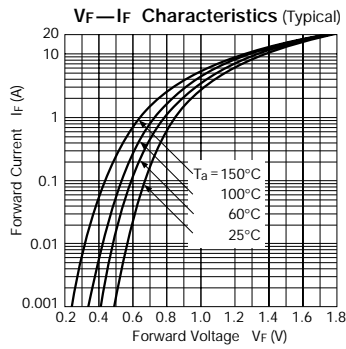
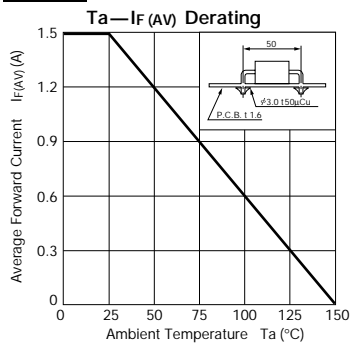


# Characteristic Curves Ultra-Fast-Recovery Rectifier Diodes

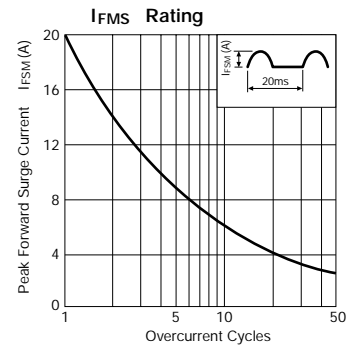
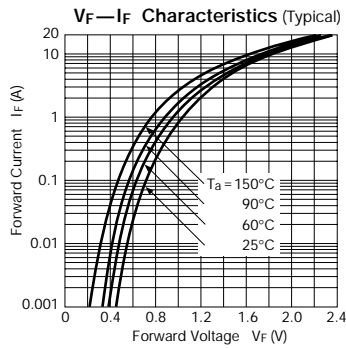
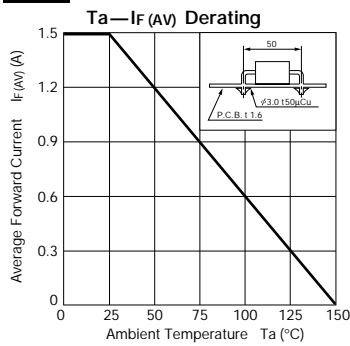
## EG 1A



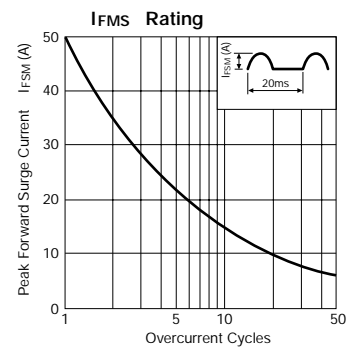
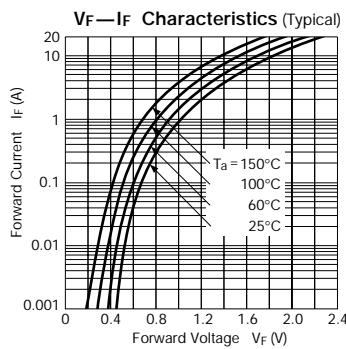
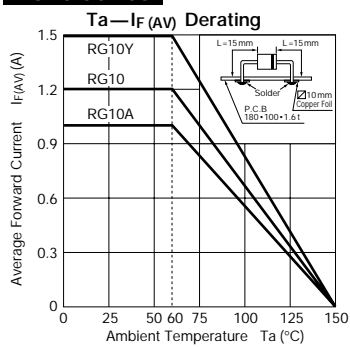
## EL 1Z



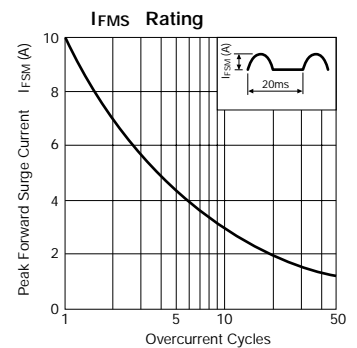
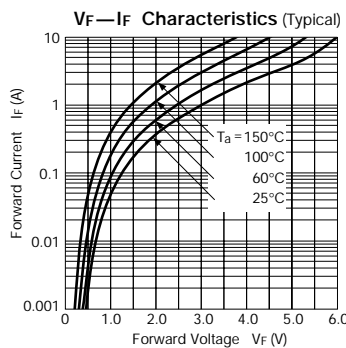
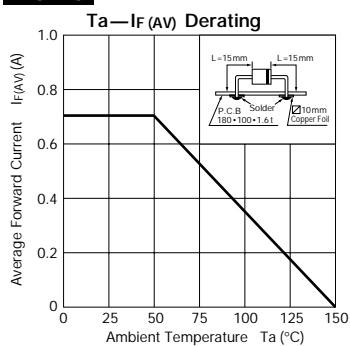
## EL 1



## RG10 series

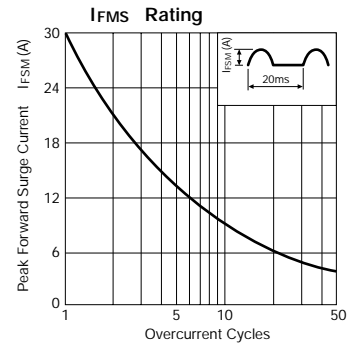
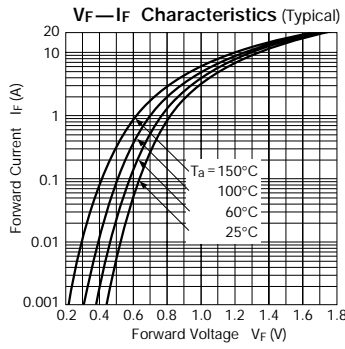
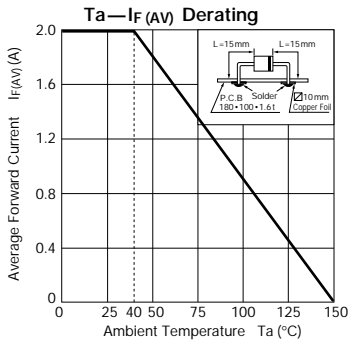


## RG 1C

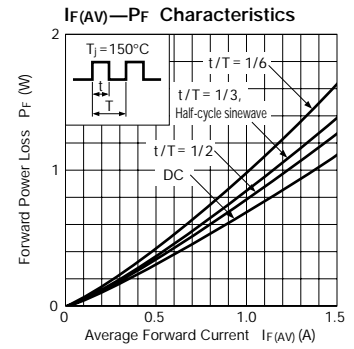
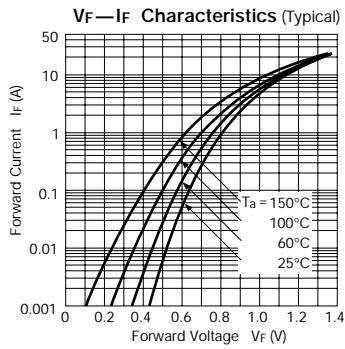
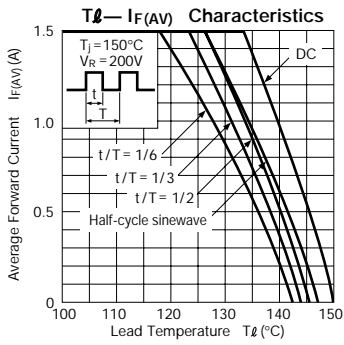


# Ultra-Fast-Recovery Rectifier Diodes

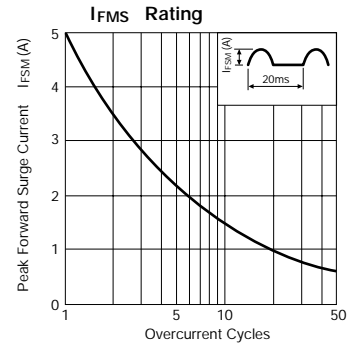
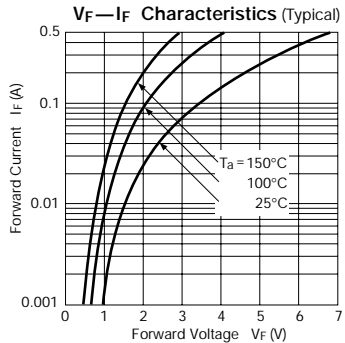
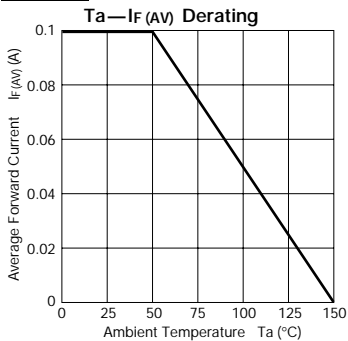
## RL 10Z



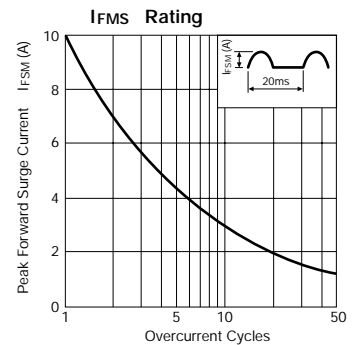
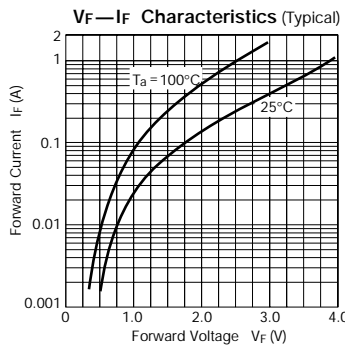
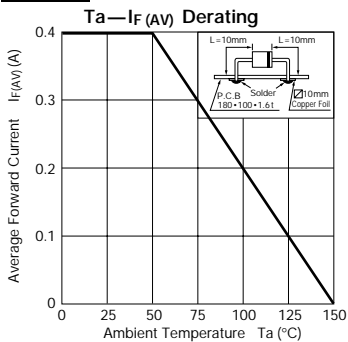
## RN 1Z



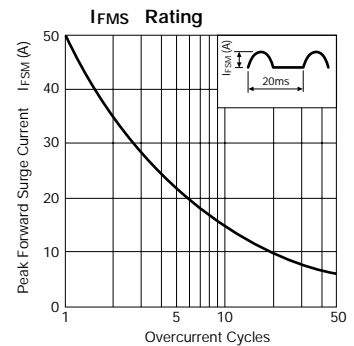
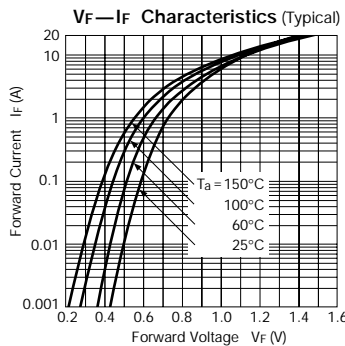
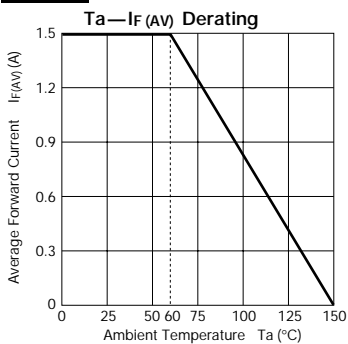
## RP 1H



## RU 1P

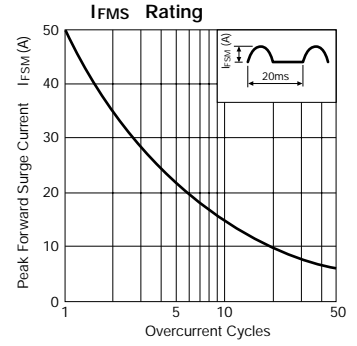
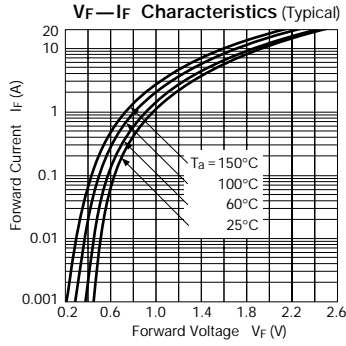
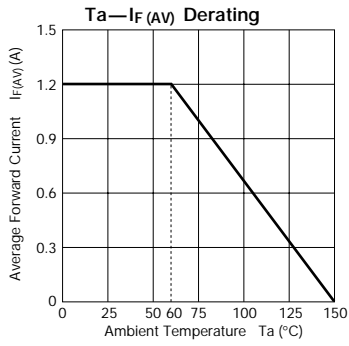


## RG 2Y

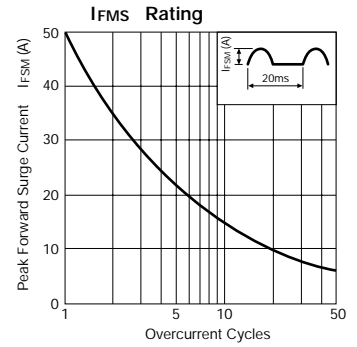
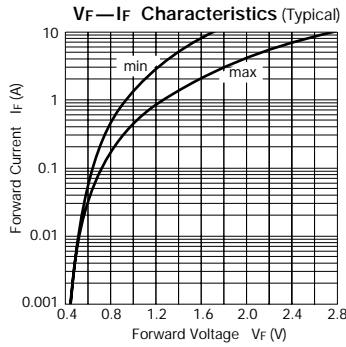
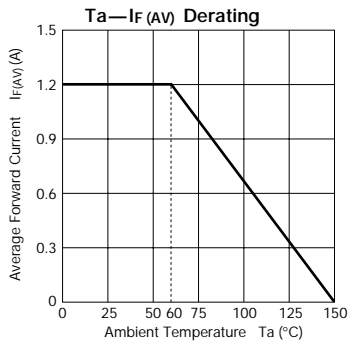


# Characteristic Curves Ultra-Fast-Recovery Rectifier Diodes

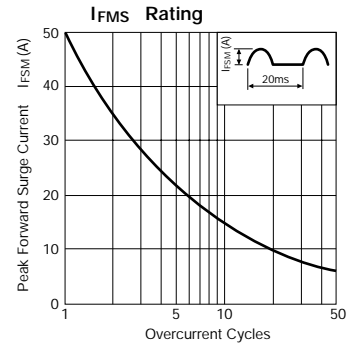
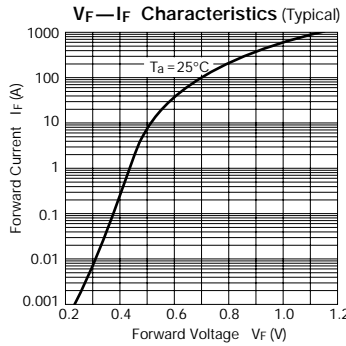
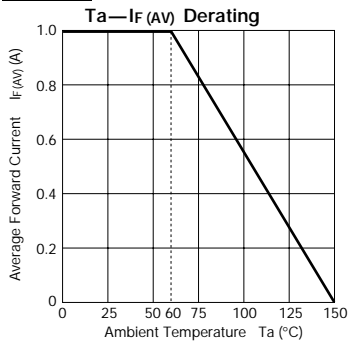
## RG 2Z



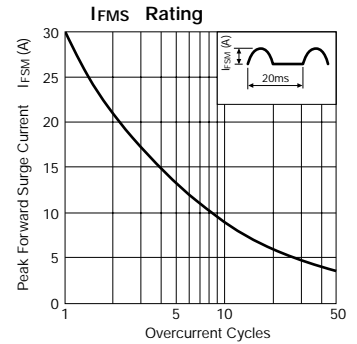
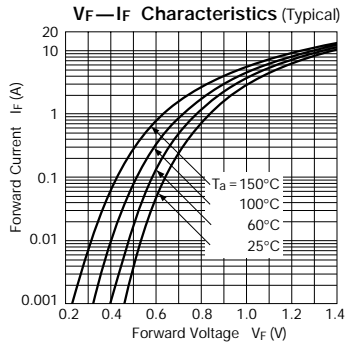
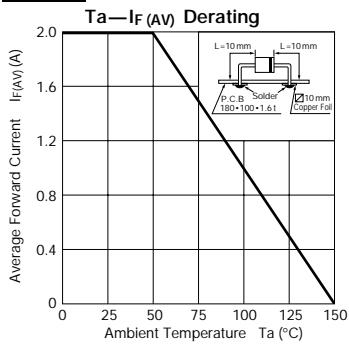
## RG 2



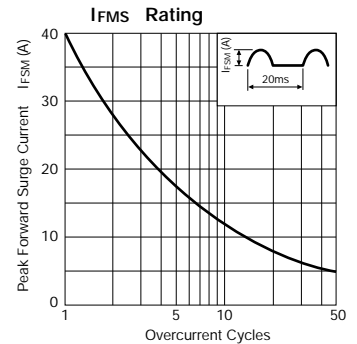
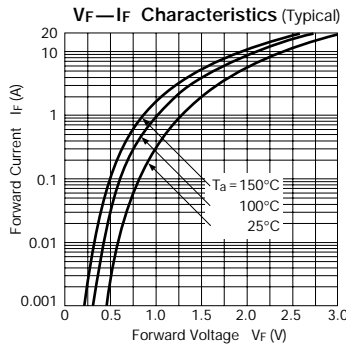
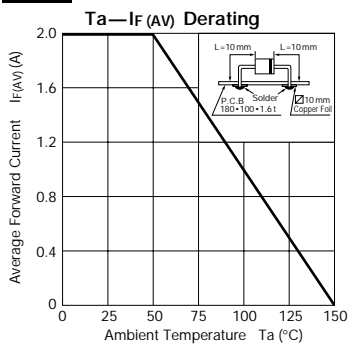
## RG 2A



## RL 2Z

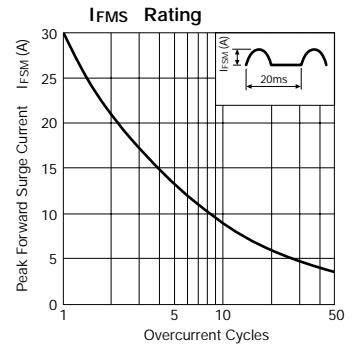
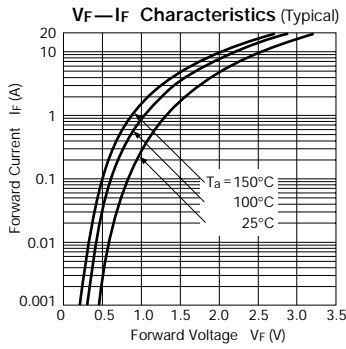
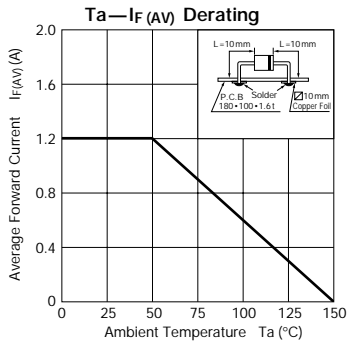


## RL 2

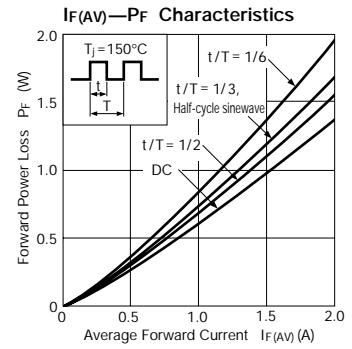
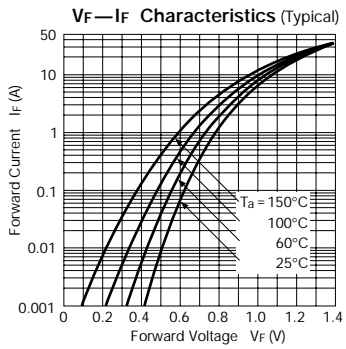
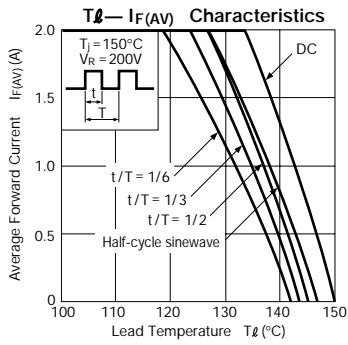


# Ultra-Fast-Recovery Rectifier Diodes

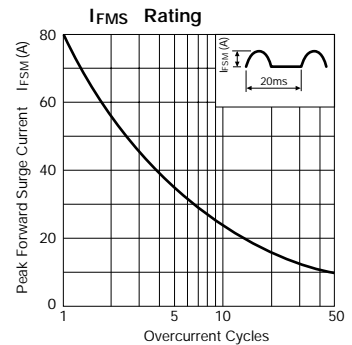
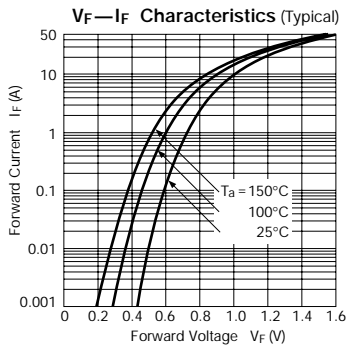
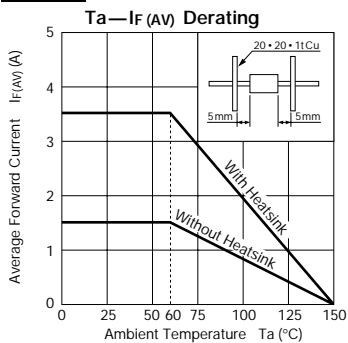
## RL 2A



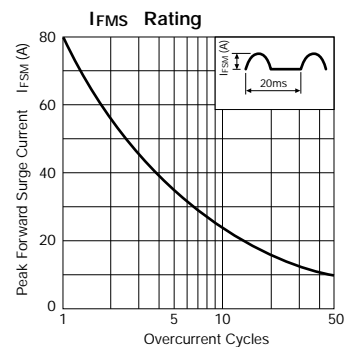
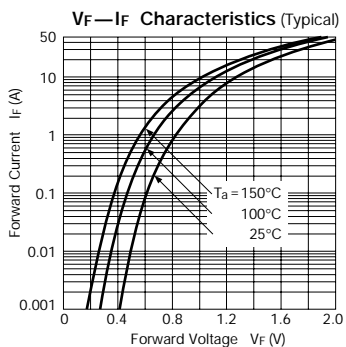
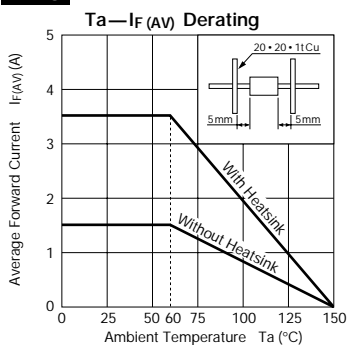
## RN 2Z



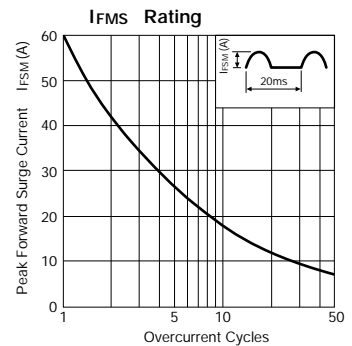
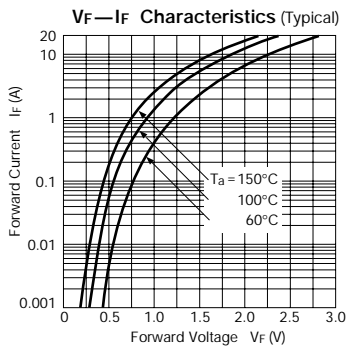
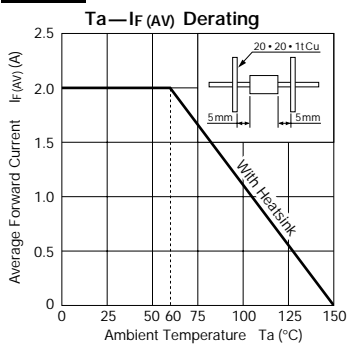
## RL 3Z



## RL 3

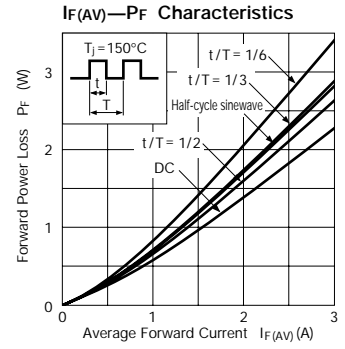
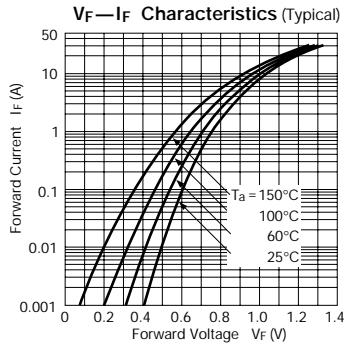
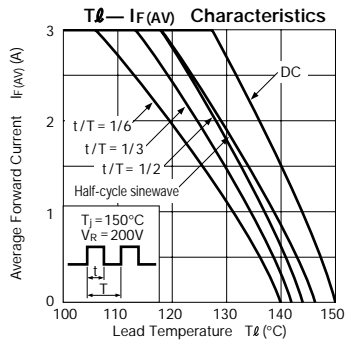


## RL 3A

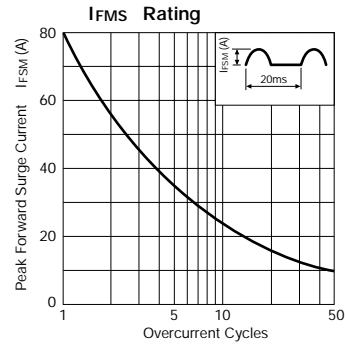
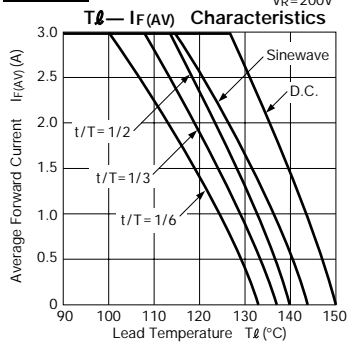


# Ultra-Fast-Recovery Rectifier Diodes

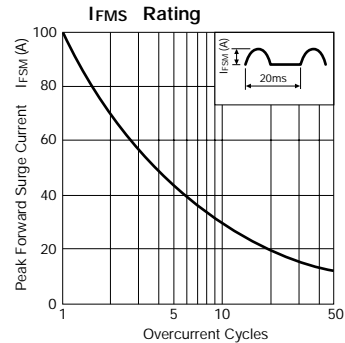
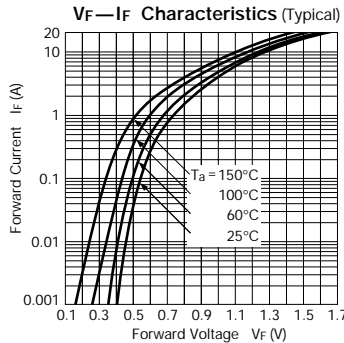
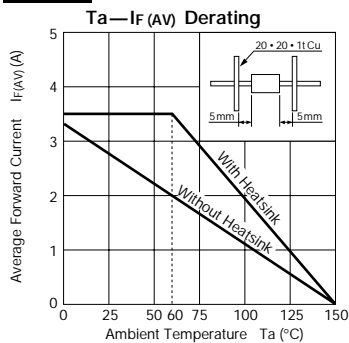
## RN 3Z



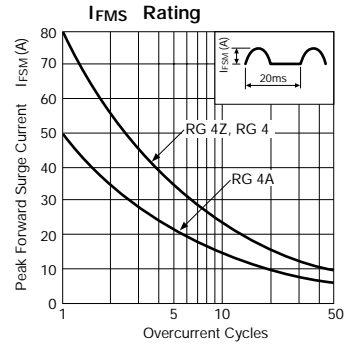
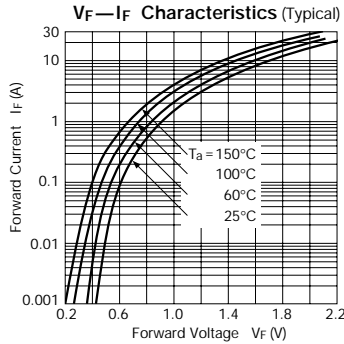
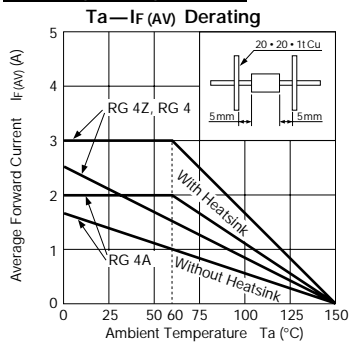
## RX 3Z



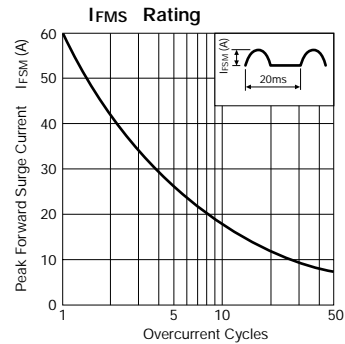
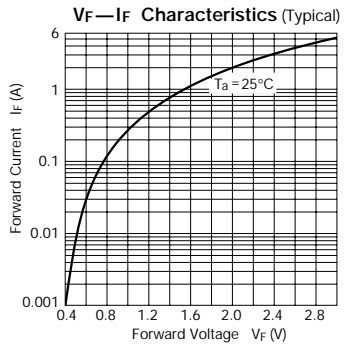
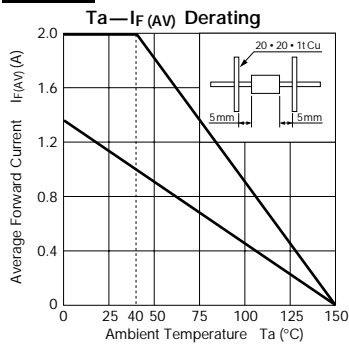
## RG 4Y



## RG 4Z, RG 4, RG 4A

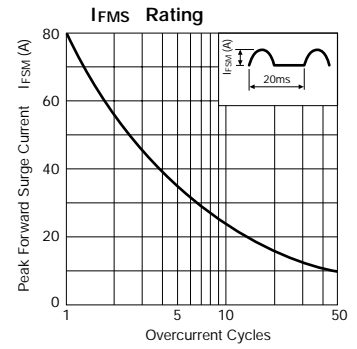
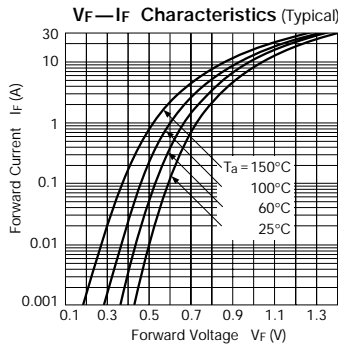
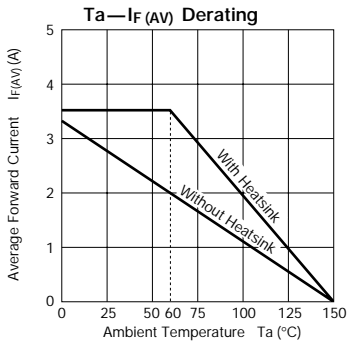


## RG 4C

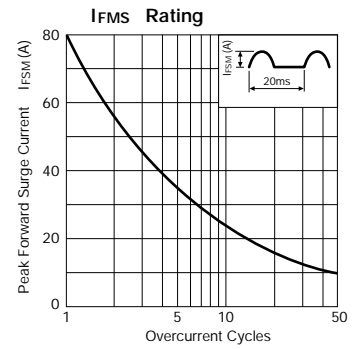
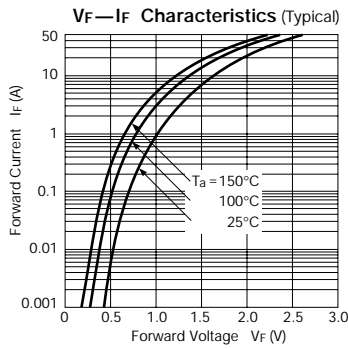
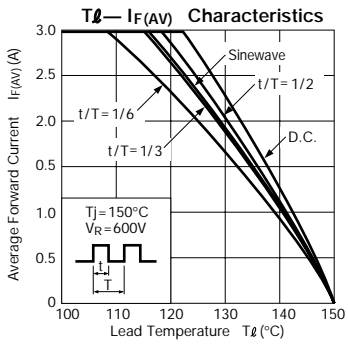


# Ultra-Fast-Recovery Rectifier Diodes

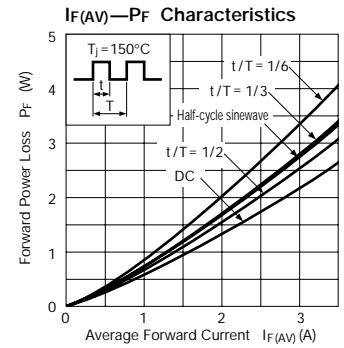
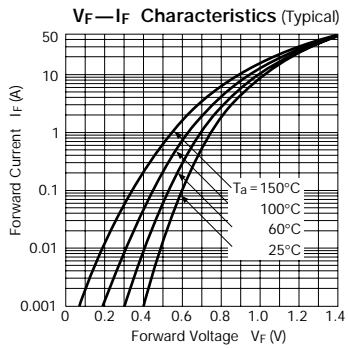
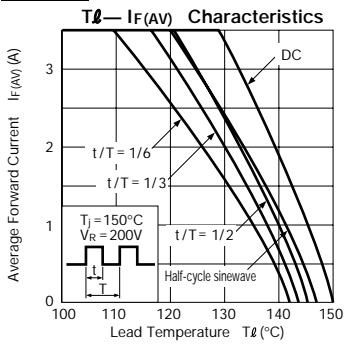
## RL 4Z



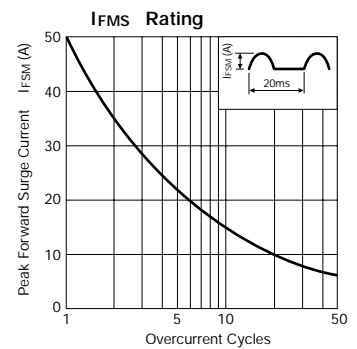
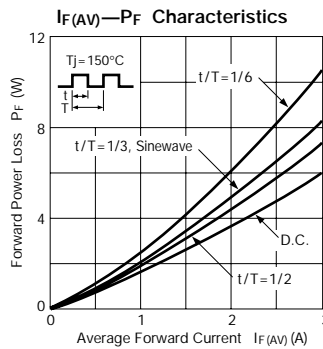
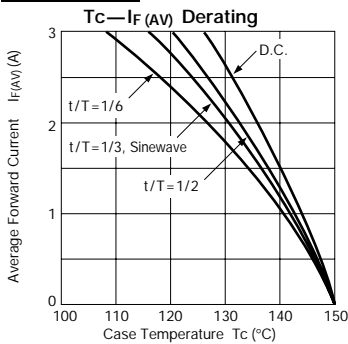
## RL 4A



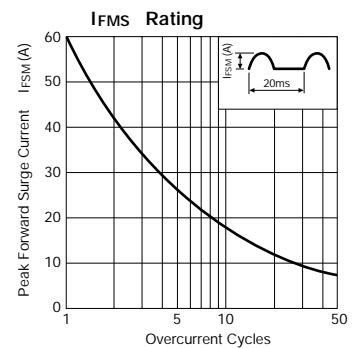
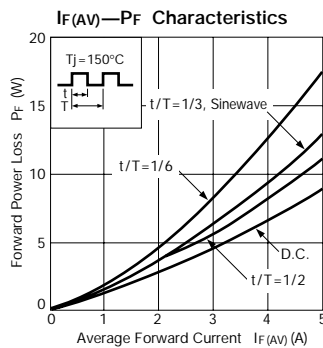
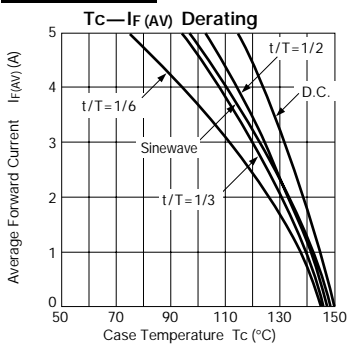
## RN 4Z



## FMC-G28S



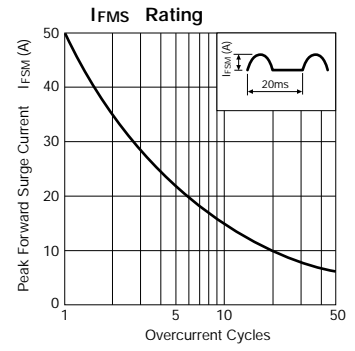
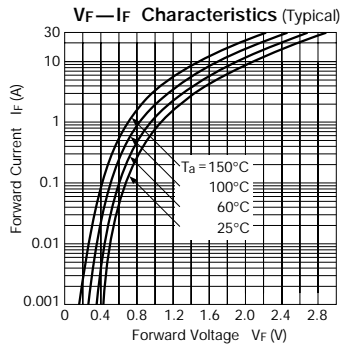
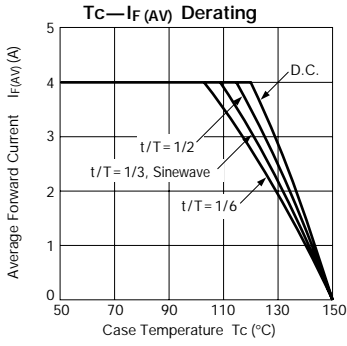
## FMC-G28SL



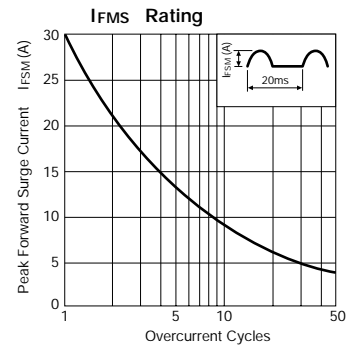
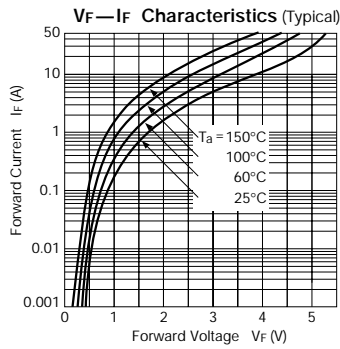
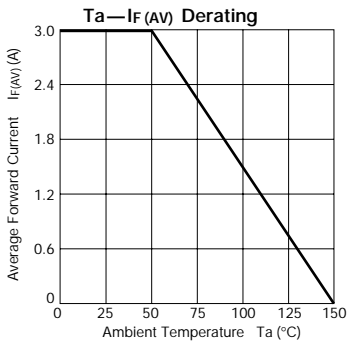


# Ultra-Fast-Recovery Rectifier Diodes

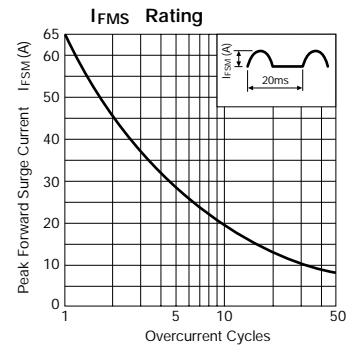
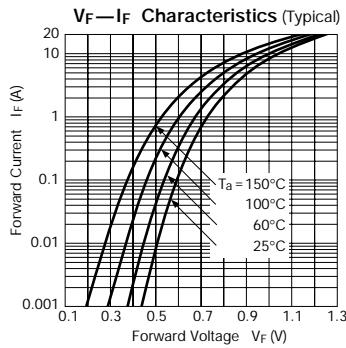
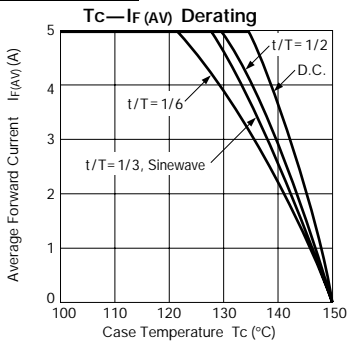
## FMG-G26S



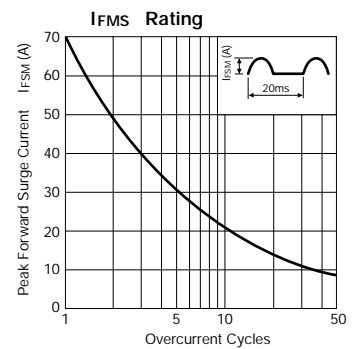
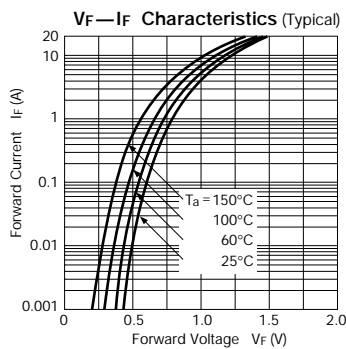
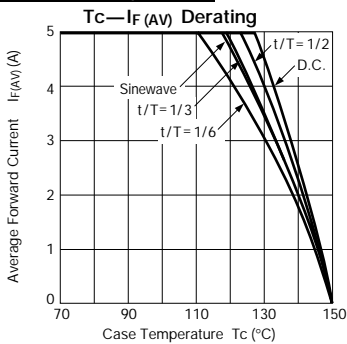
## FMG-G2CS



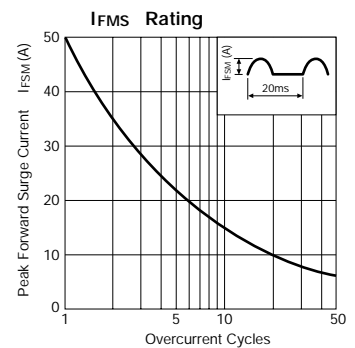
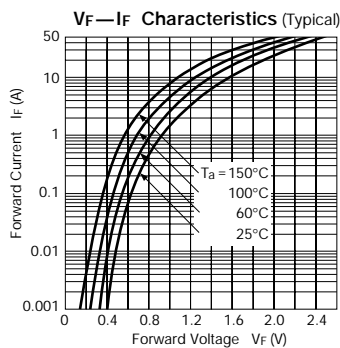
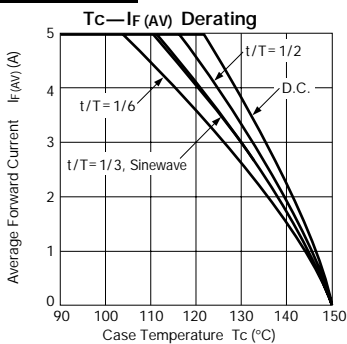
## FML-G12S



## FML-G13S, G14S

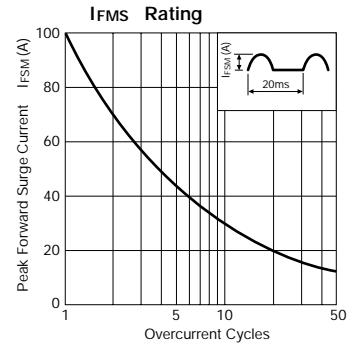
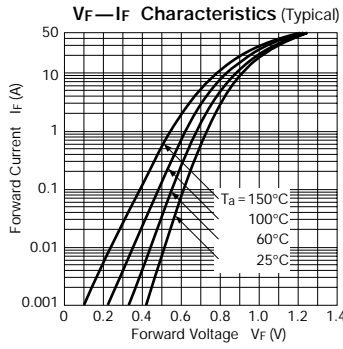
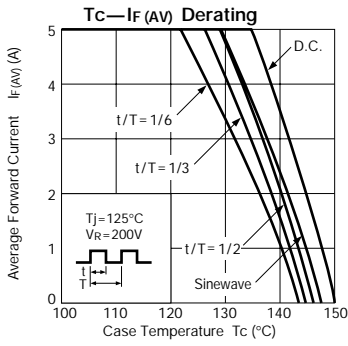


## FML-G16S

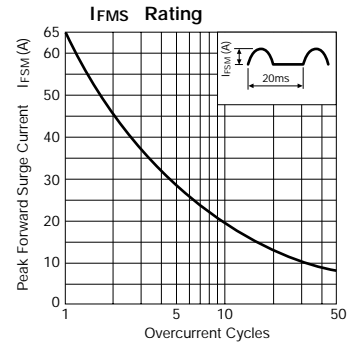
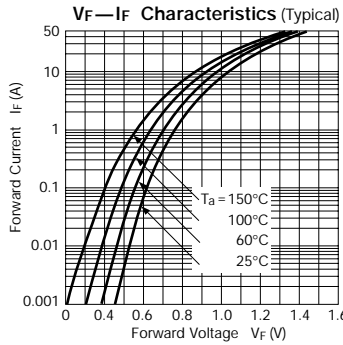
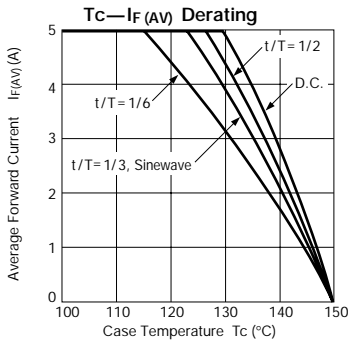


# Ultra-Fast-Recovery Rectifier Diodes

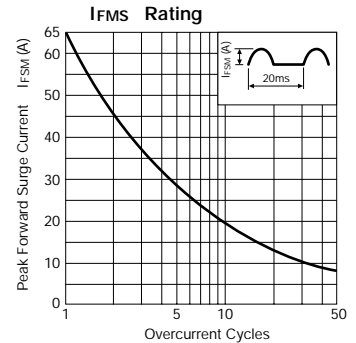
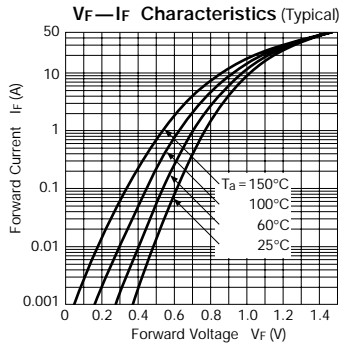
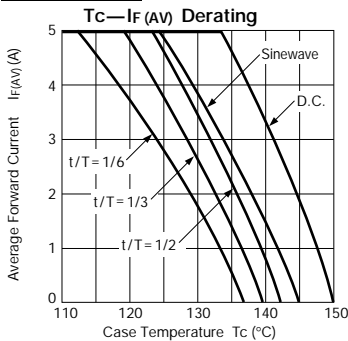
## FMN-G12S



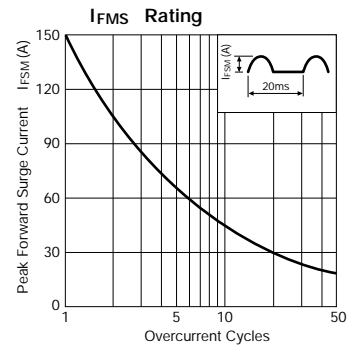
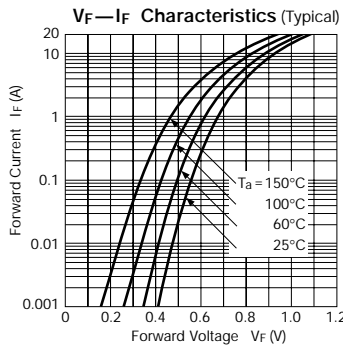
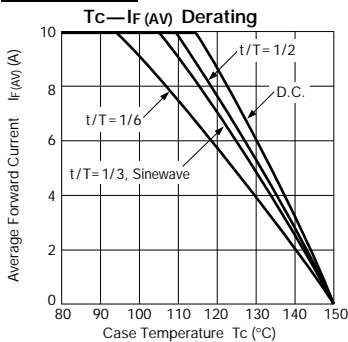
## FMP-G12S



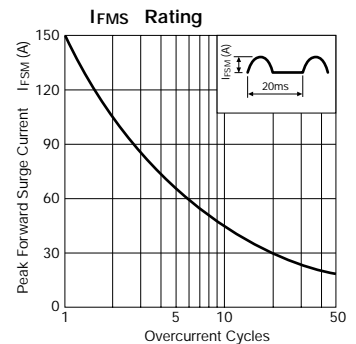
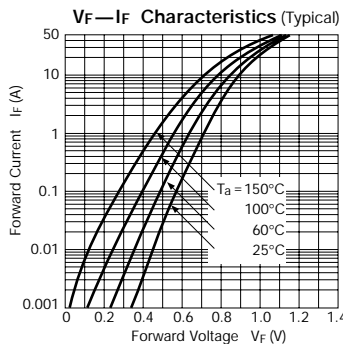
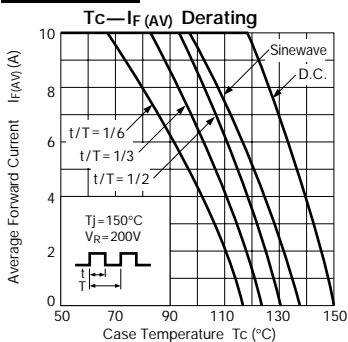
## FMX-G12S



## FML-G22S

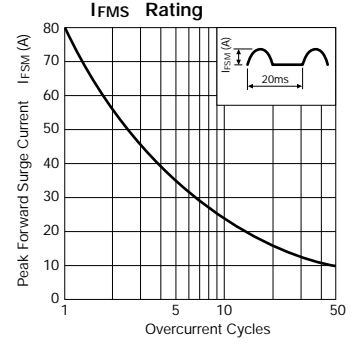
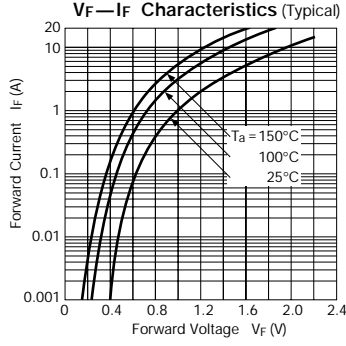
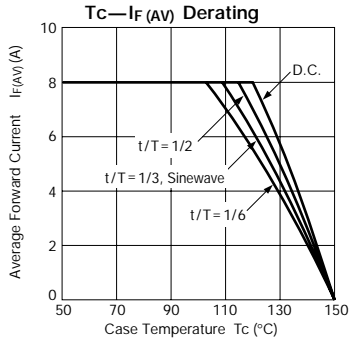


## FMX-G22S

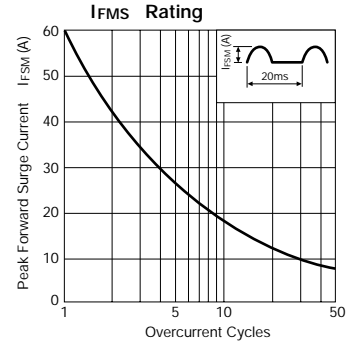
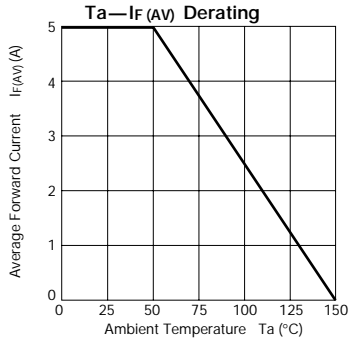


# Ultra-Fast-Recovery Rectifier Diodes

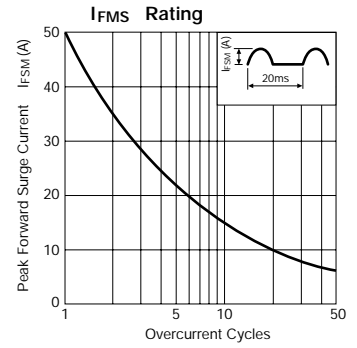
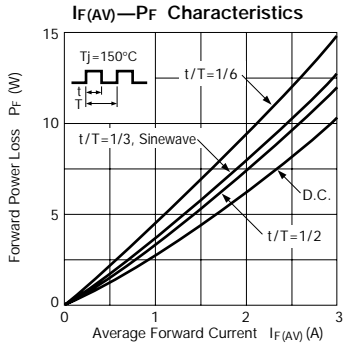
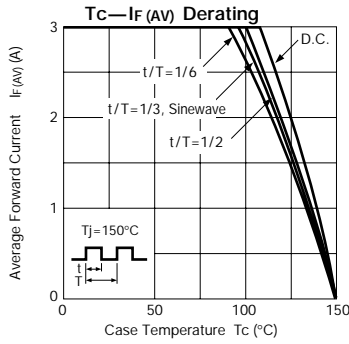
## FMG-G36S



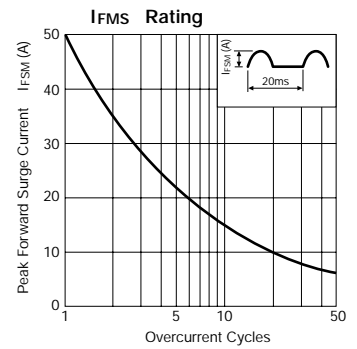
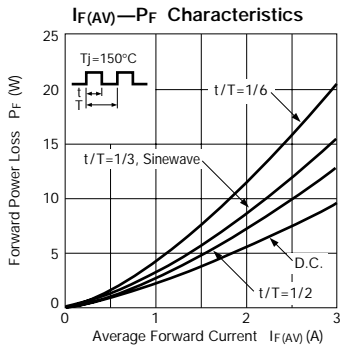
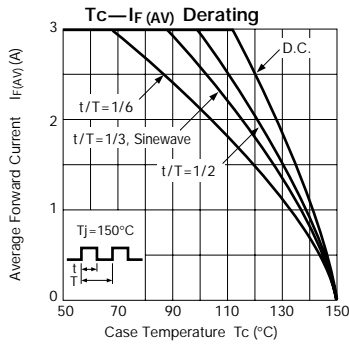
## FMG-G3CS



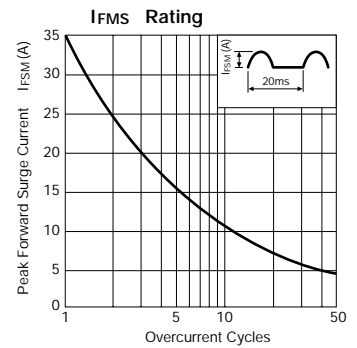
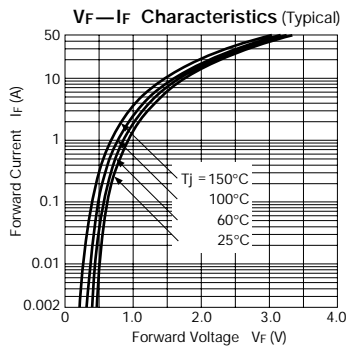
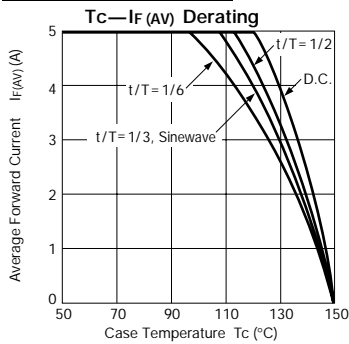
## FMC-26U, 26UA



## FMC-28U, 28UA

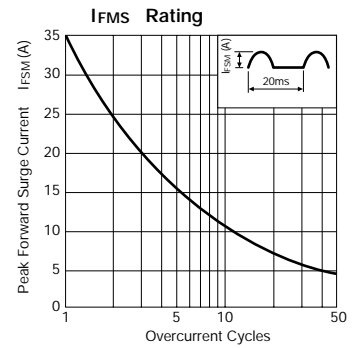
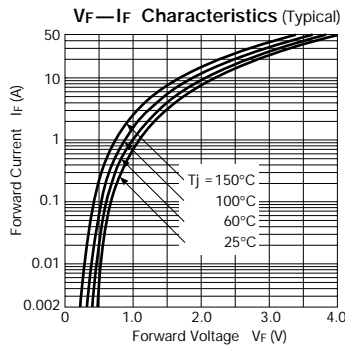
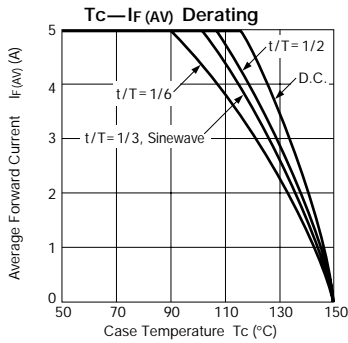


## FMG-12S/R, 13S/R

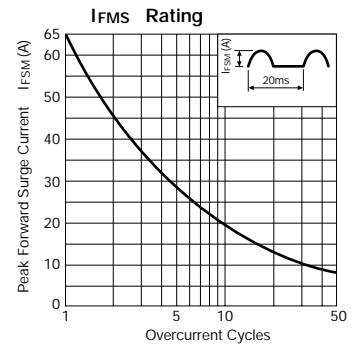
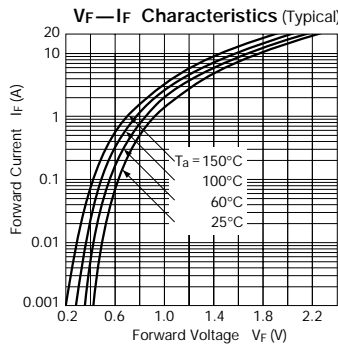
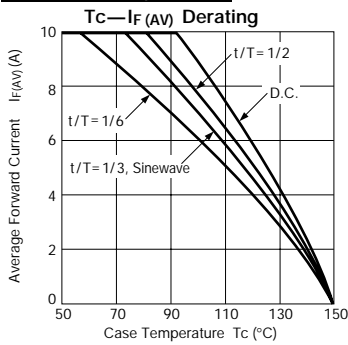


# Ultra-Fast-Recovery Rectifier Diodes

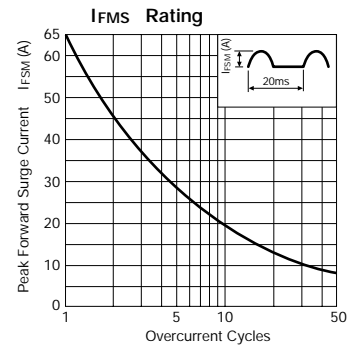
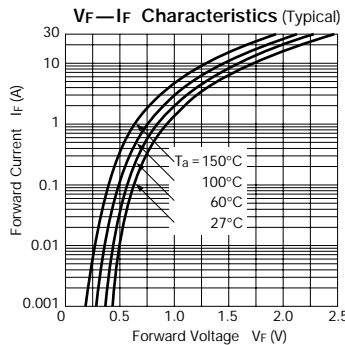
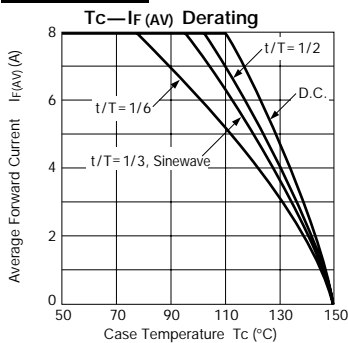
## FMG-14S/R



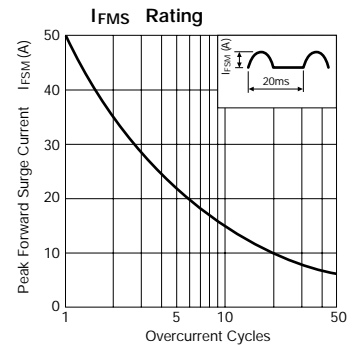
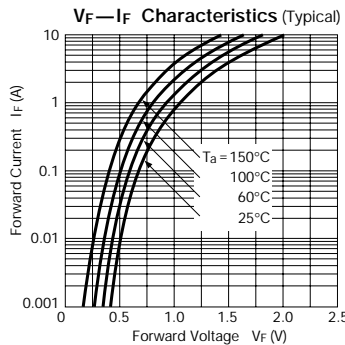
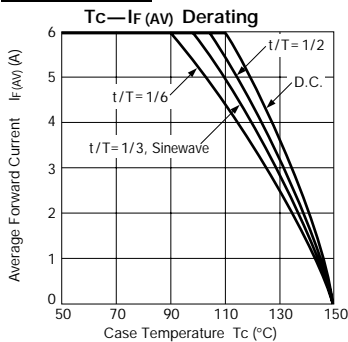
## FMG-22S/R, 23S/R



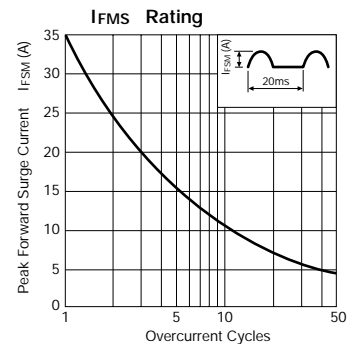
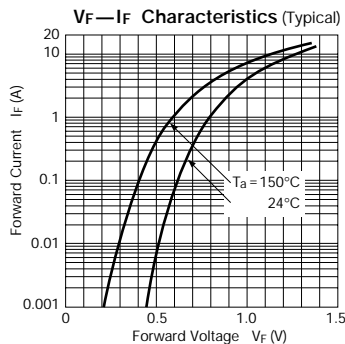
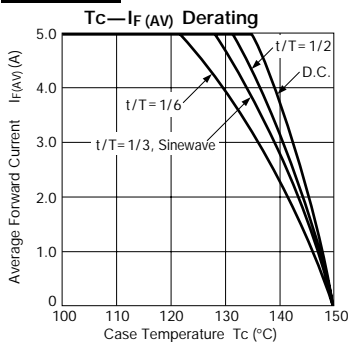
## FMG-24S/R



## FMG-26S/R

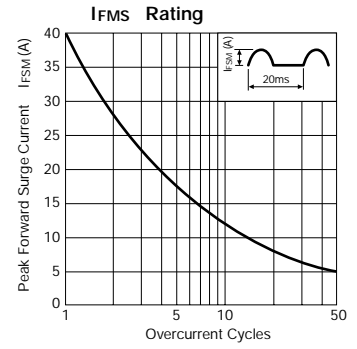
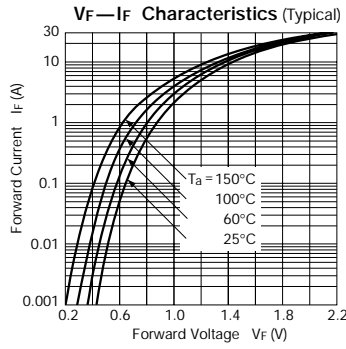
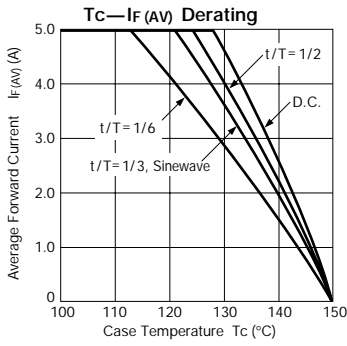


## FML-12S

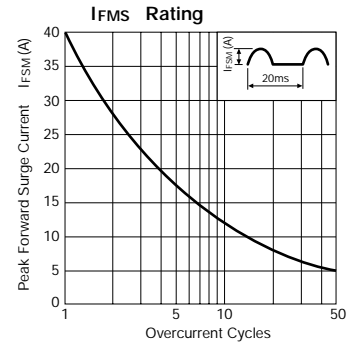
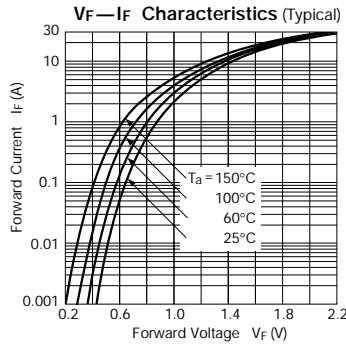
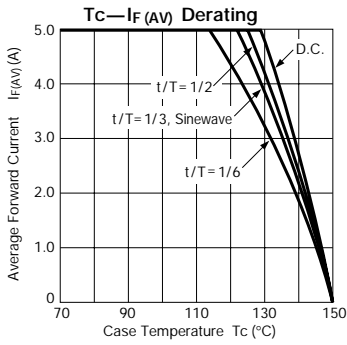


# Ultra-Fast-Recovery Rectifier Diodes

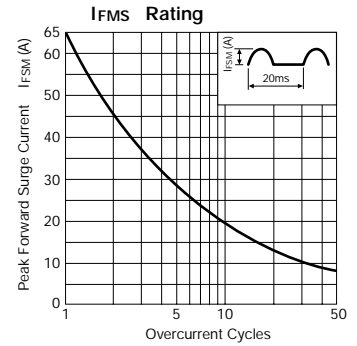
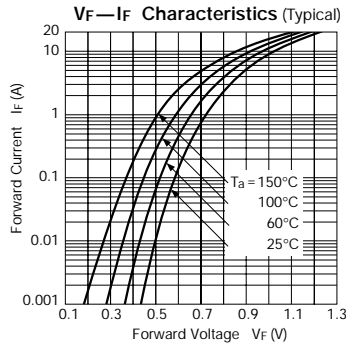
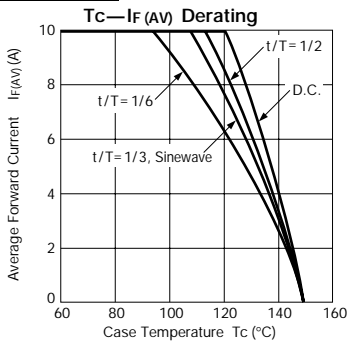
## FML-13S



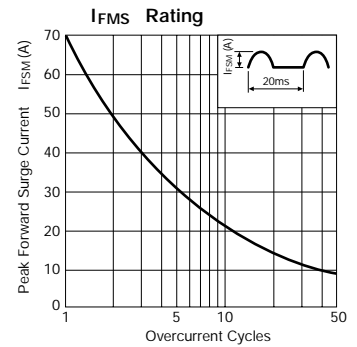
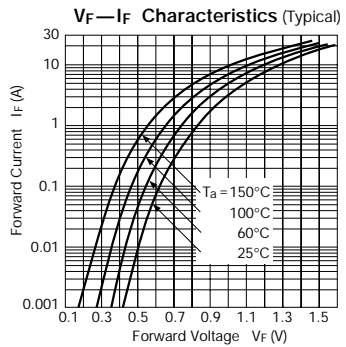
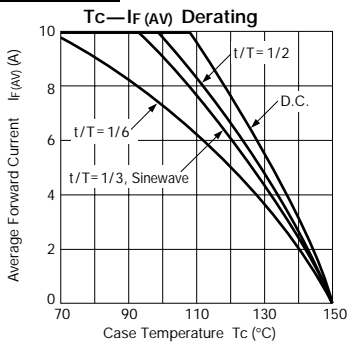
## FML-14S



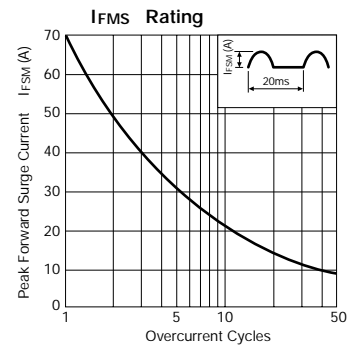
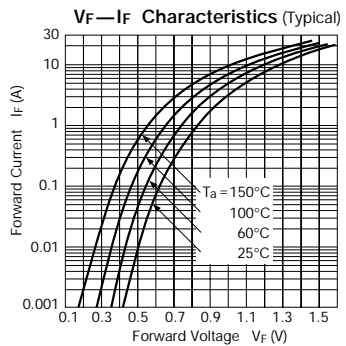
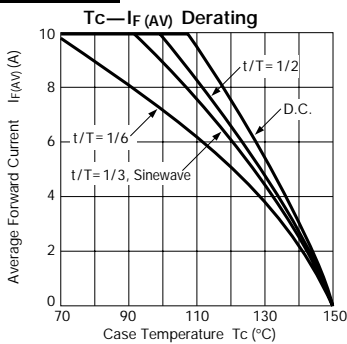
## FML-22S



## FML-23S

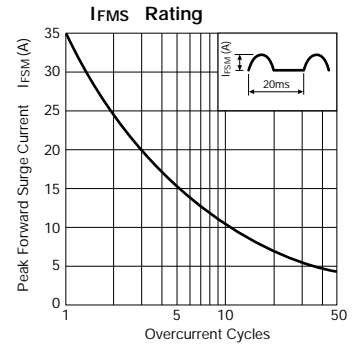
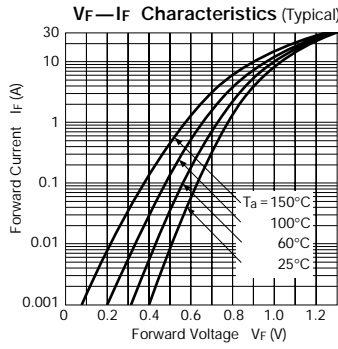
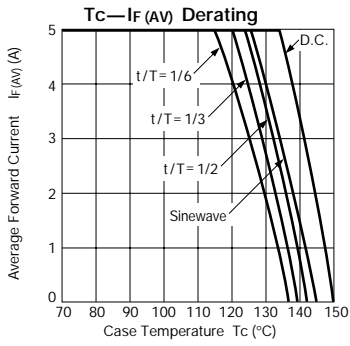


## FML-24S

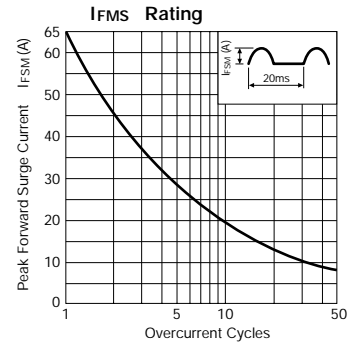
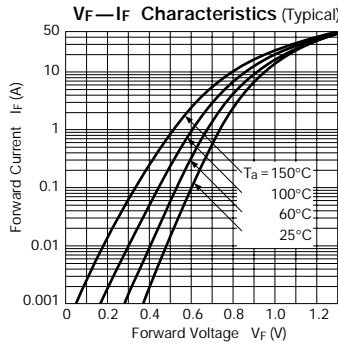
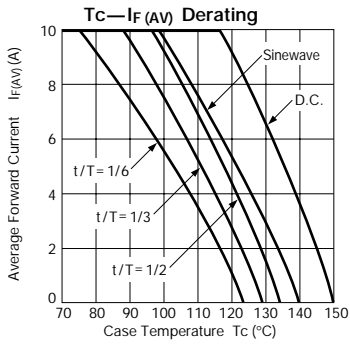


# Ultra-Fast-Recovery Rectifier Diodes

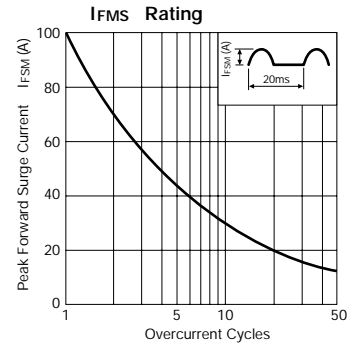
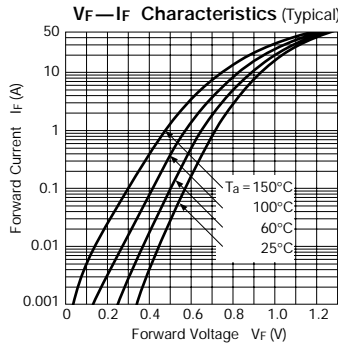
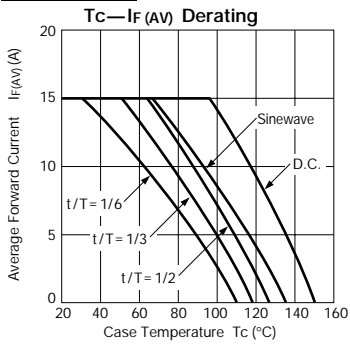
## FMX-12S



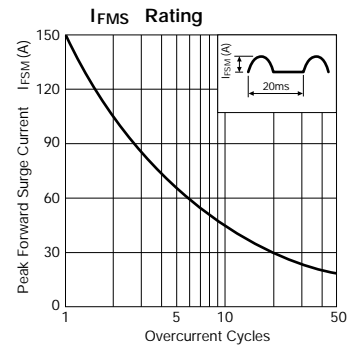
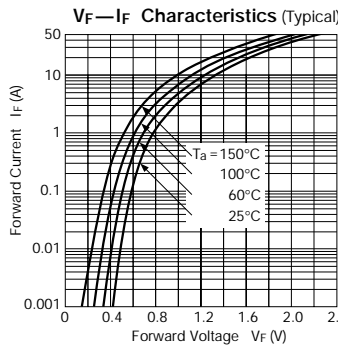
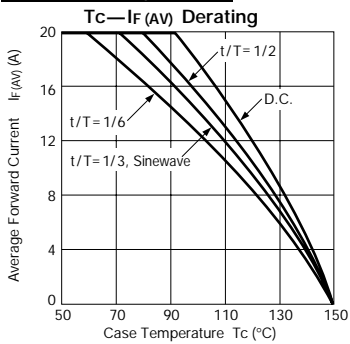
## FMX-22S



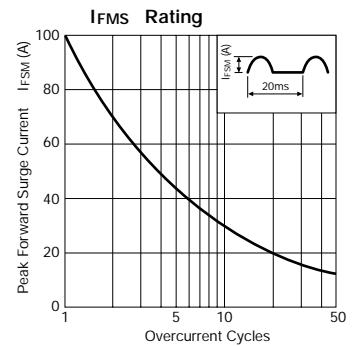
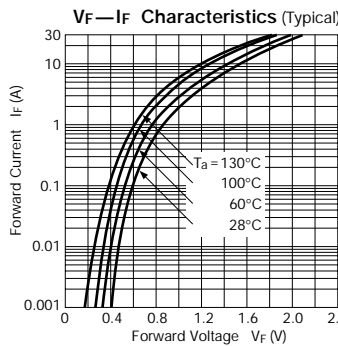
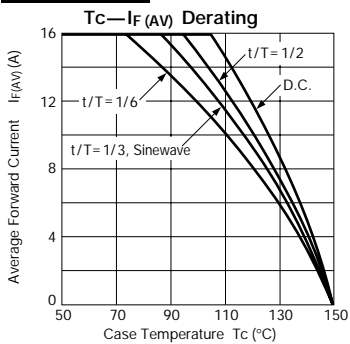
## FMX-22SL



## FMG-32S/R, 33S/R

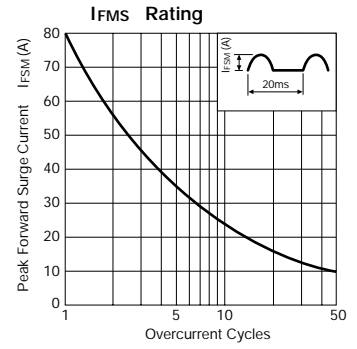
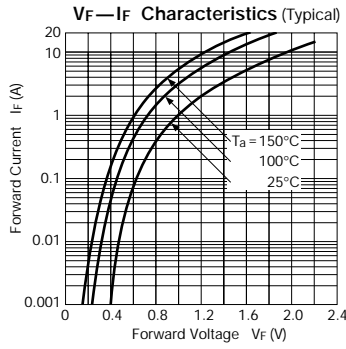
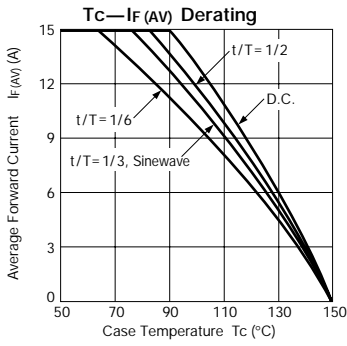


## FMG-34S/R

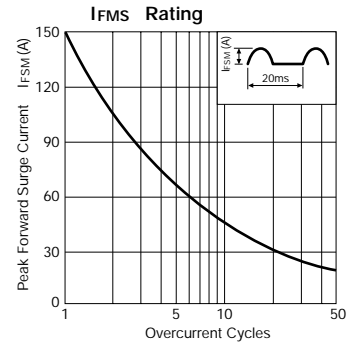
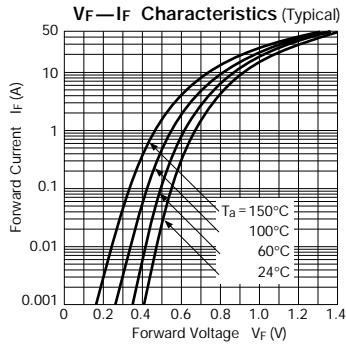
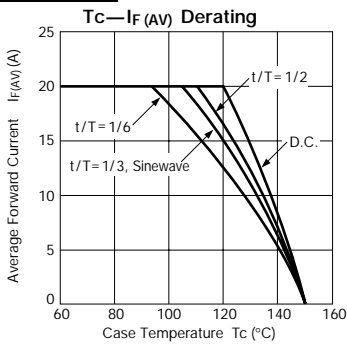


# Ultra-Fast-Recovery Rectifier Diodes

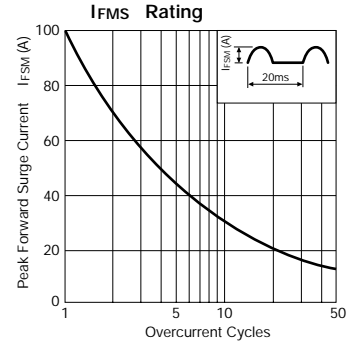
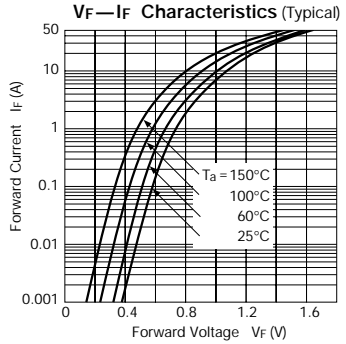
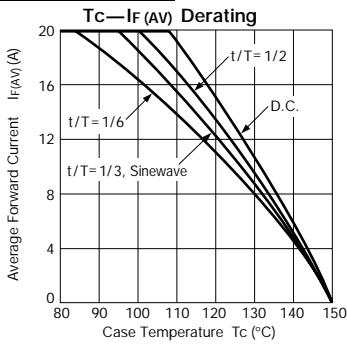
## FMG-36S/R



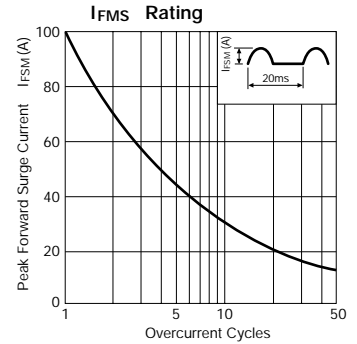
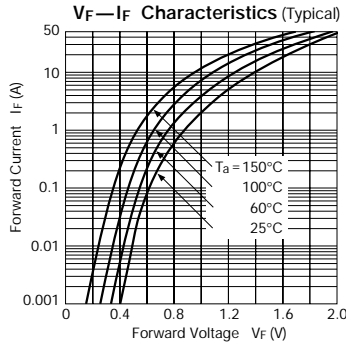
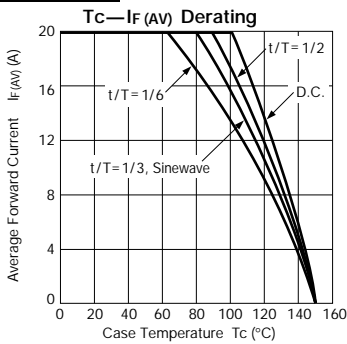
## FML-32S



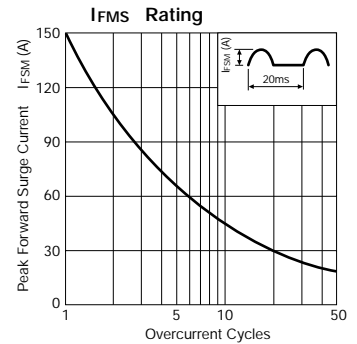
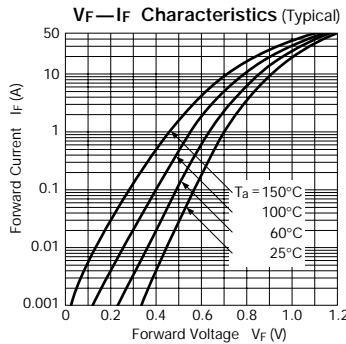
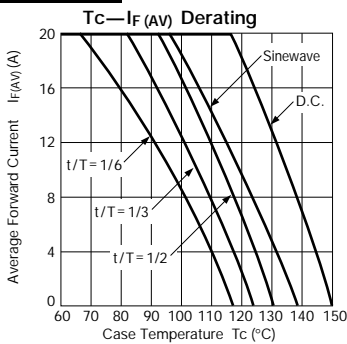
## FML-33S, 34S



## FML-36S

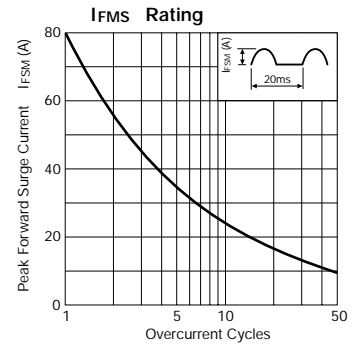
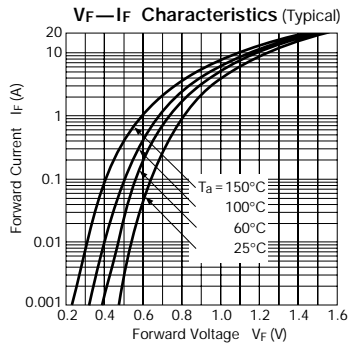
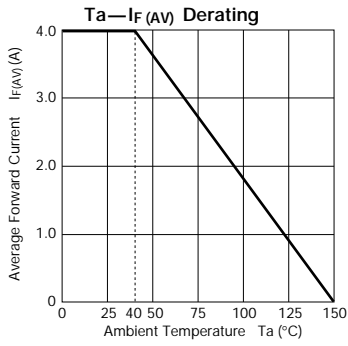


## FMX-32S

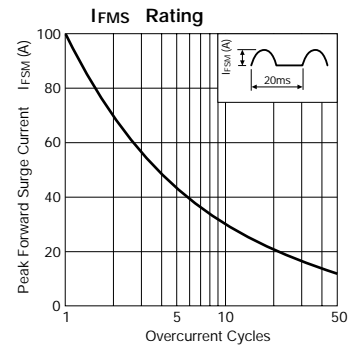
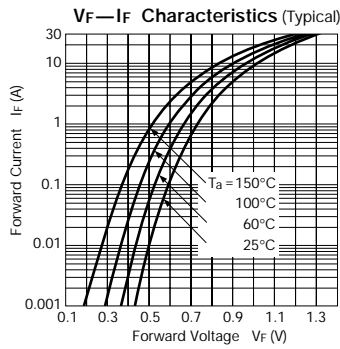
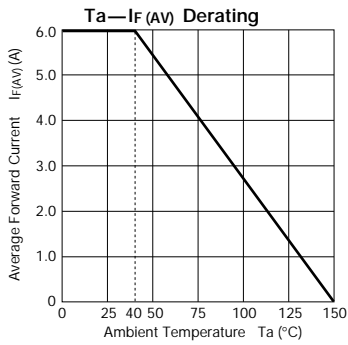


# Ultra-Fast-Recovery Rectifier Diodes

## RBV-402L



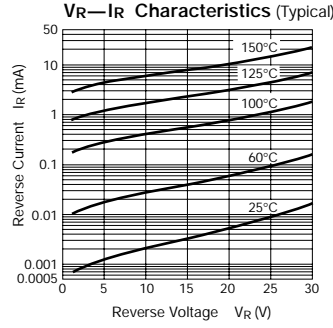
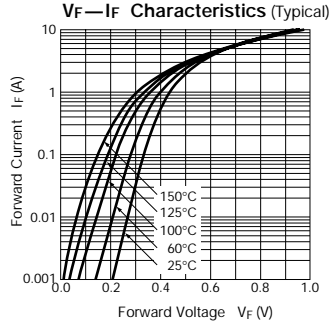
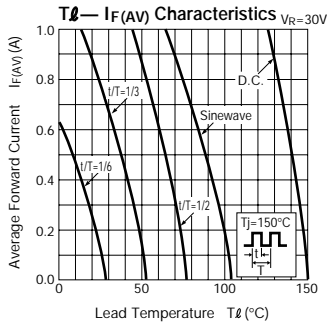
## RBV-602L



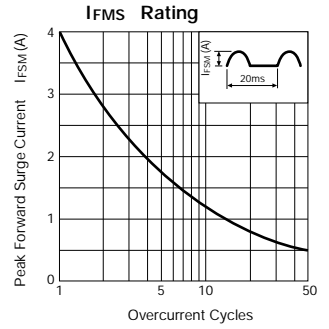
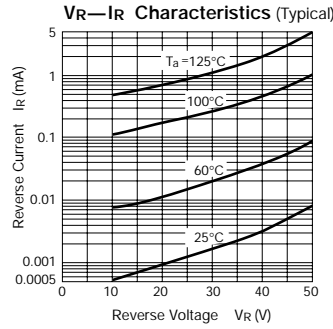
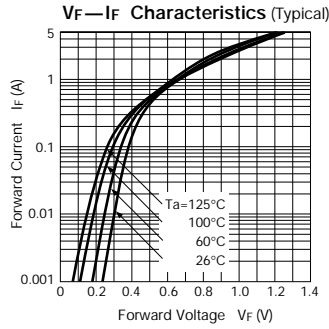
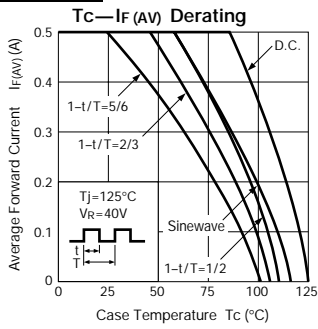


# Characteristic Curves Schottky Barrier Diodes

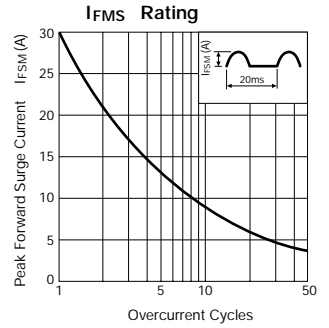
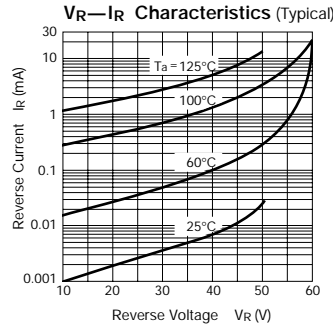
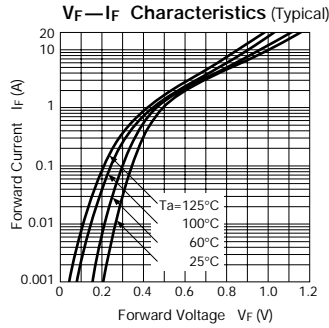
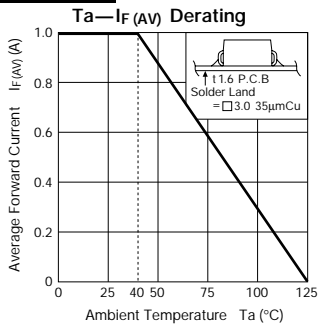
## MI1A3



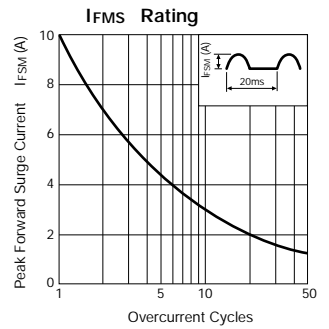
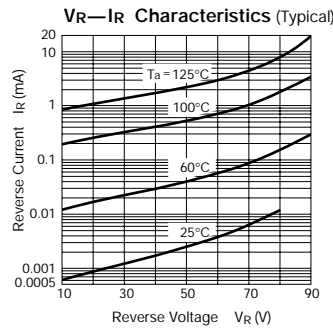
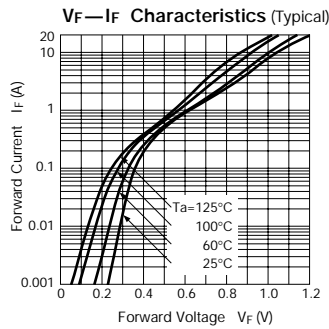
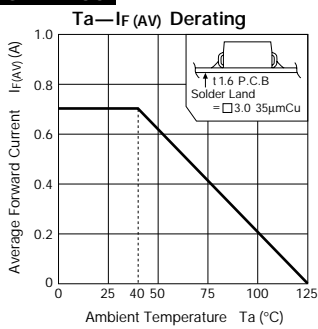
## SSB-14



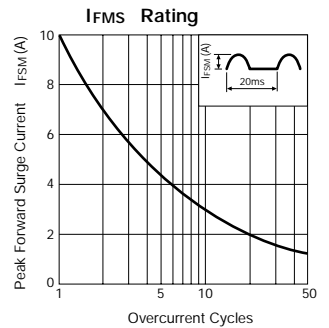
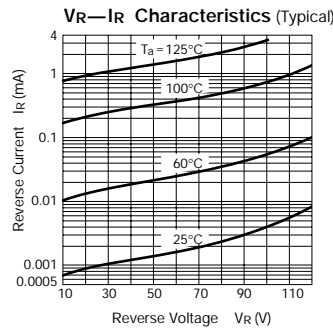
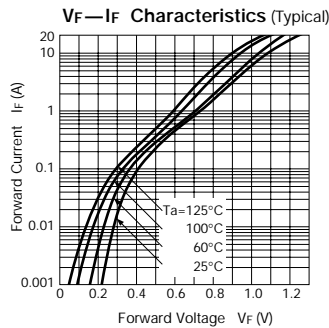
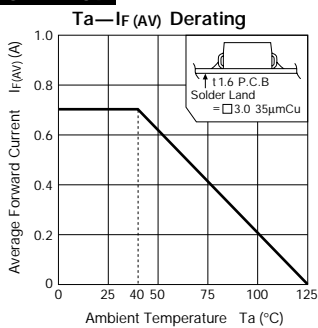
## SFPB-54



## SFPB-56

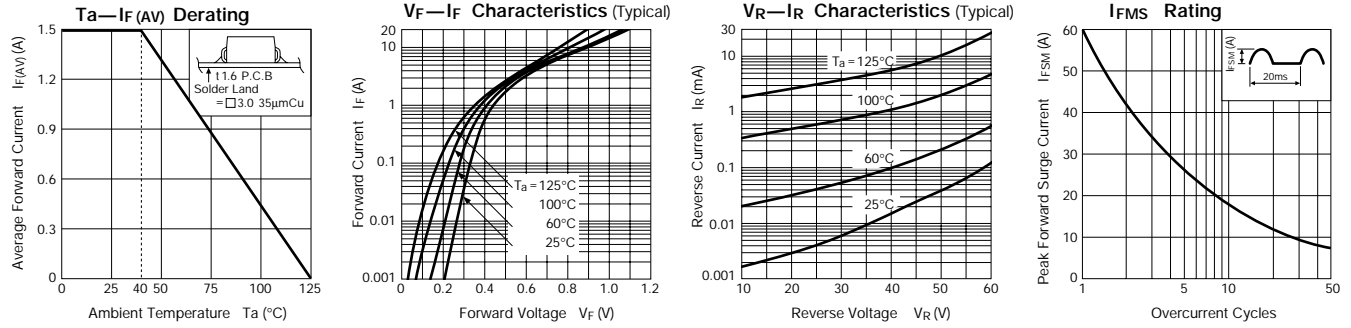


## SFPB-59

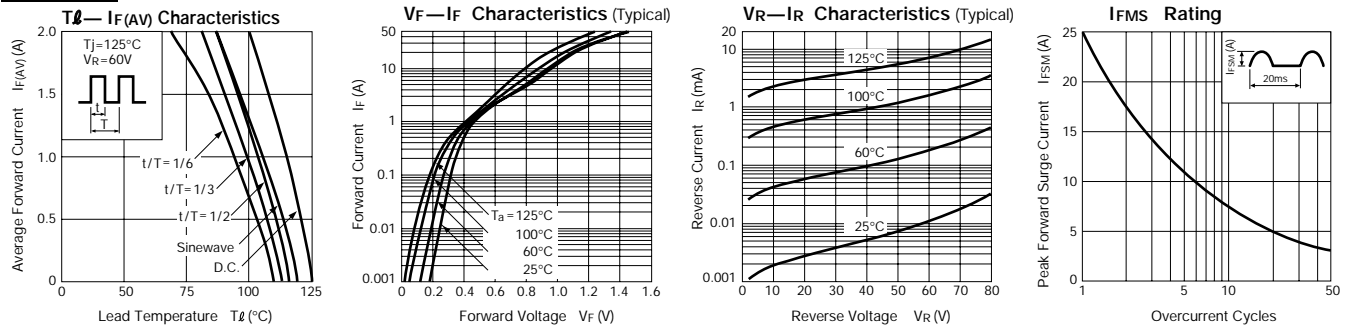


# Characteristic Curves Schottky Barrier Diodes

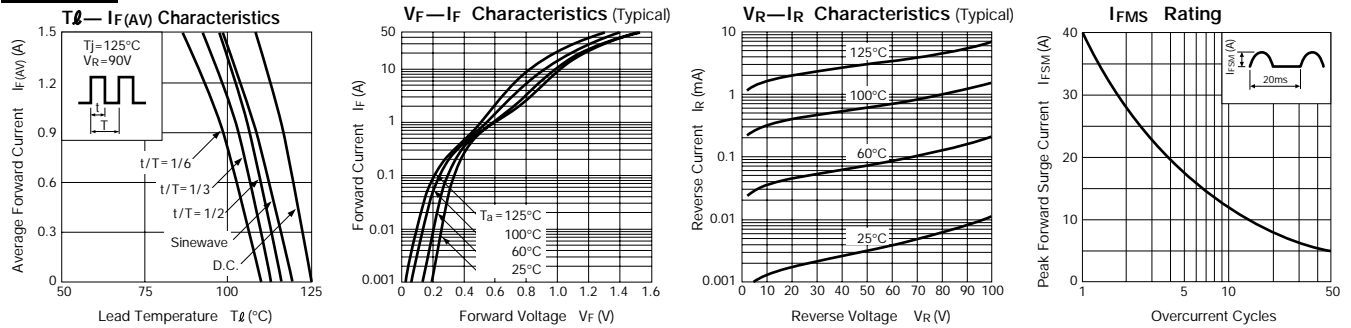
## SFPB-64



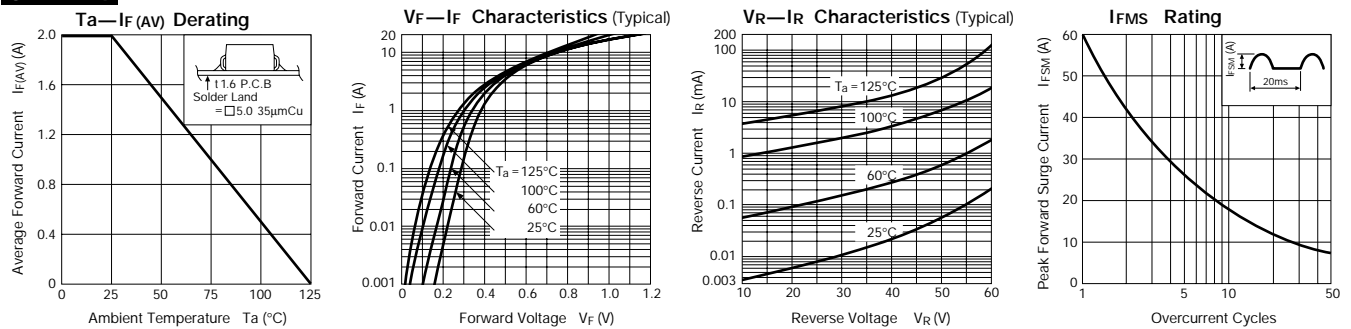
## SFPB-66



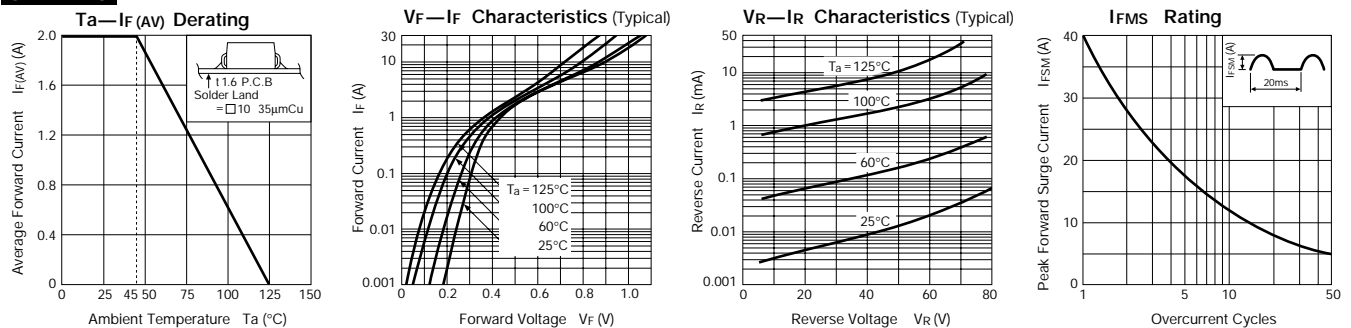
## SFPB-69



## SFPB-74

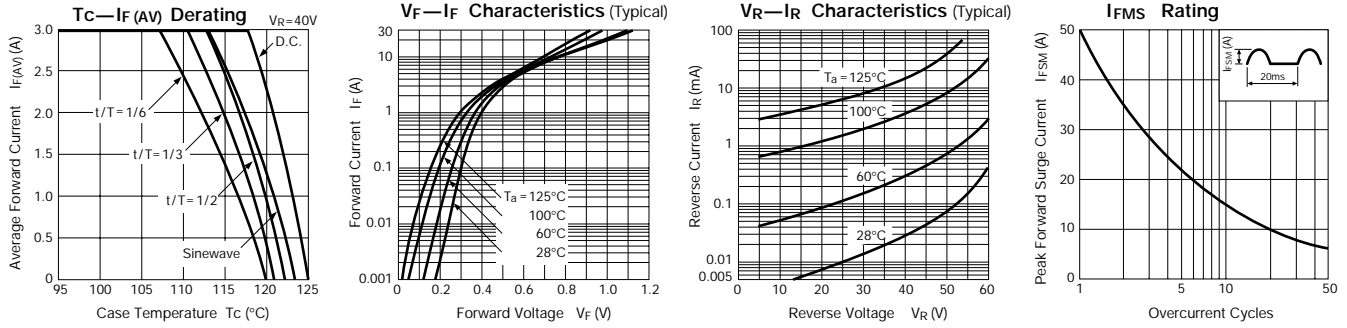


## SFPB-76

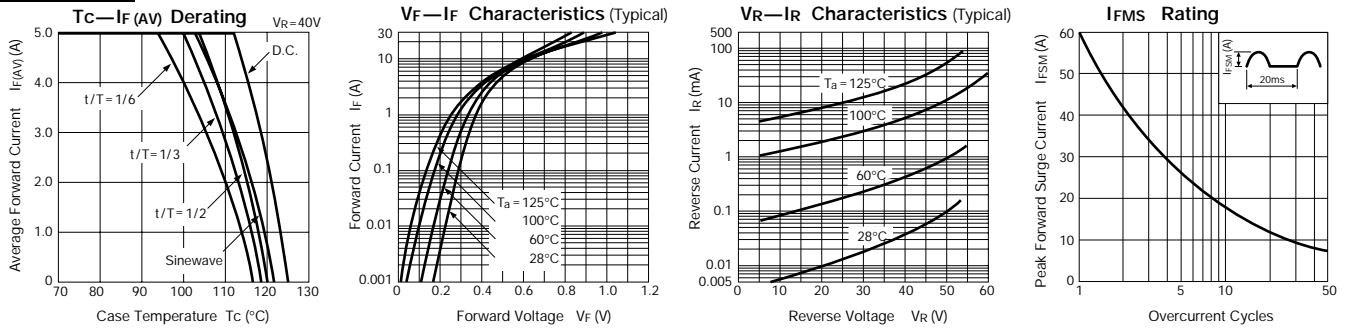


# Characteristic Curves Schottky Barrier Diodes

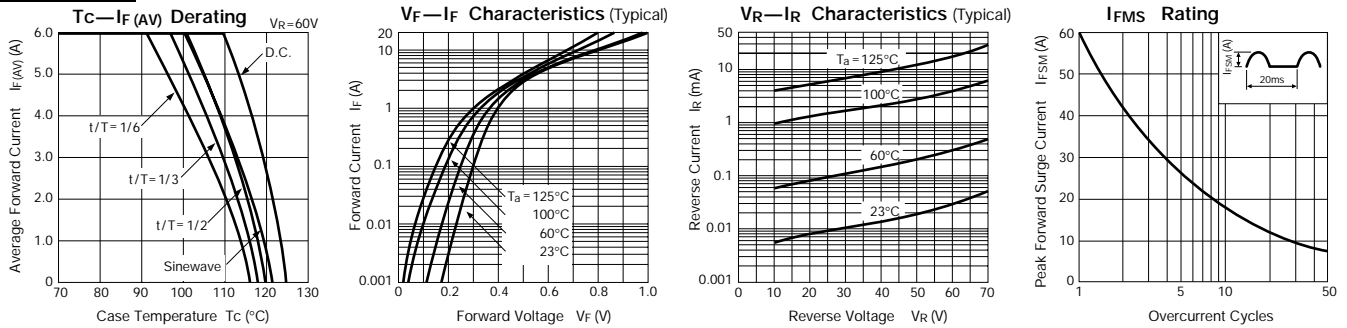
## SPB-G34S



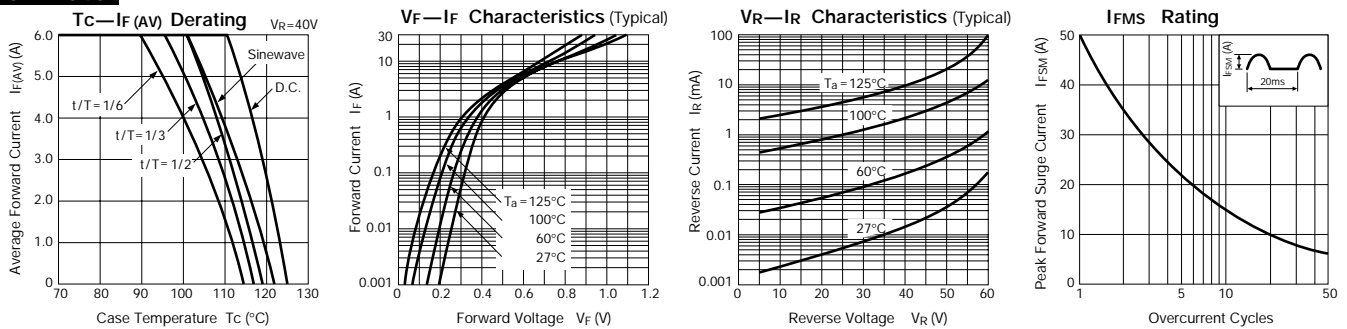
## SPB-G54S



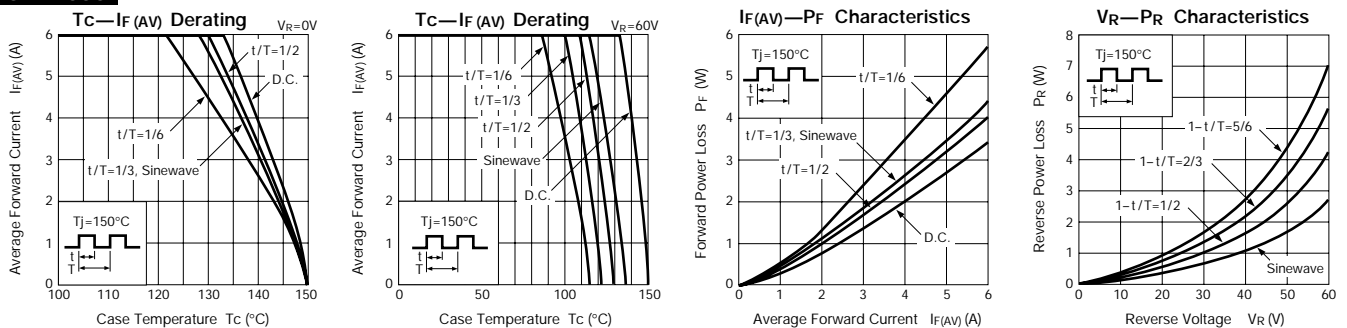
## SPB-G56S



## SPB-64S

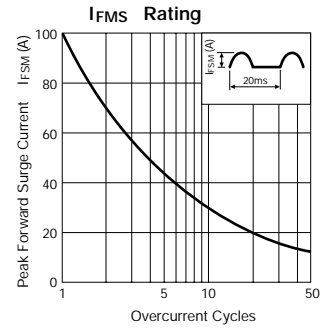
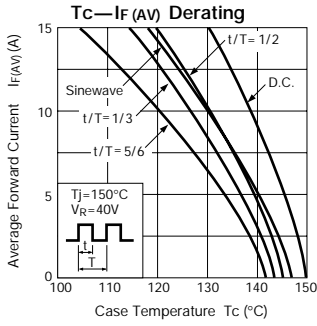


## SPB-66S

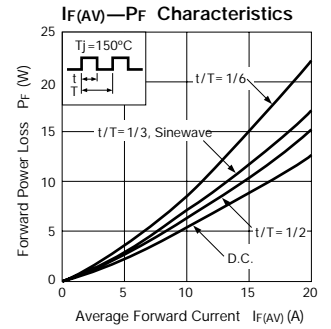
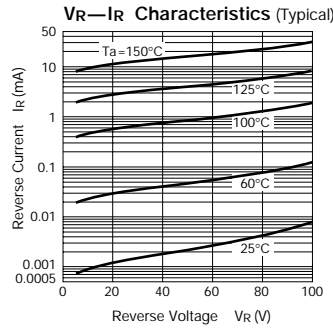
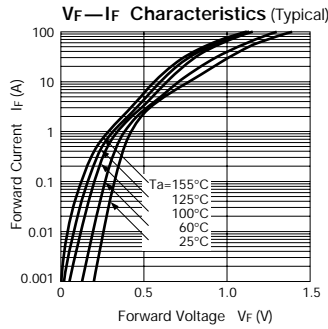
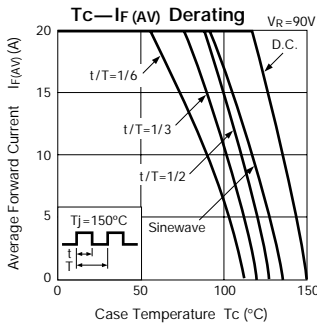


# Characteristic Curves Schottky Barrier Diodes

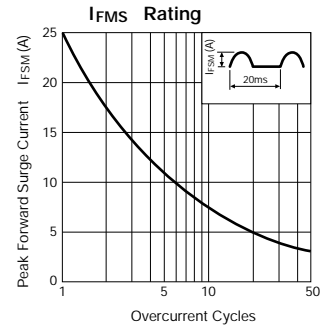
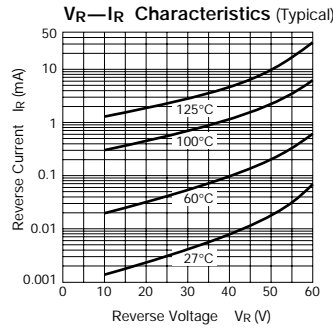
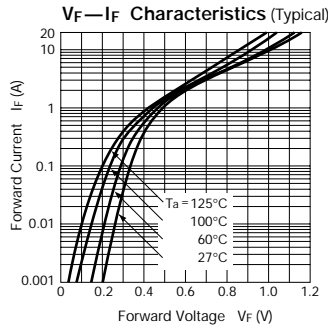
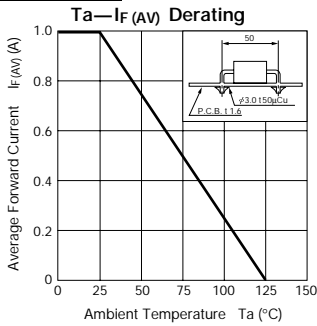
## MPE-24H



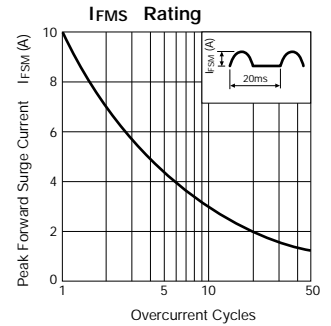
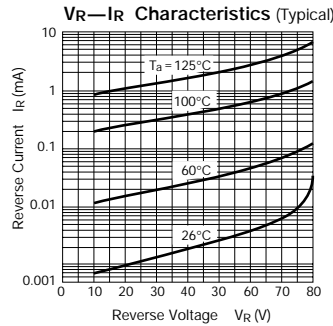
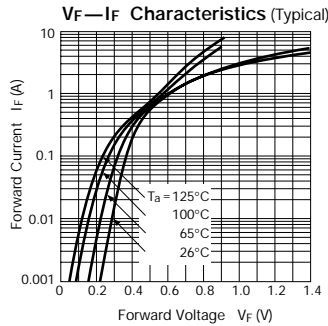
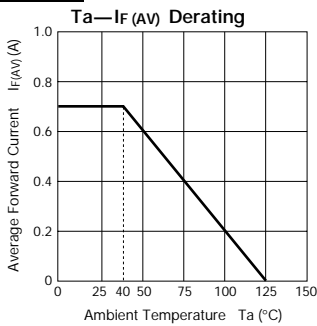
## MPE-29G



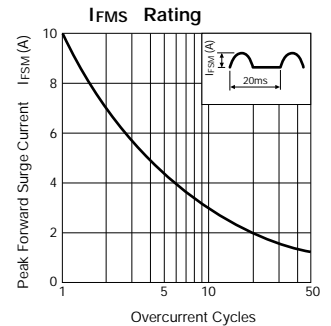
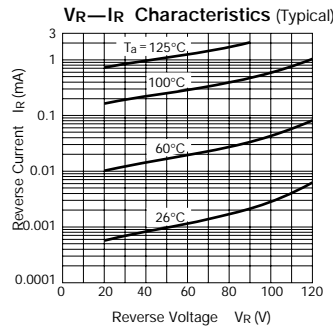
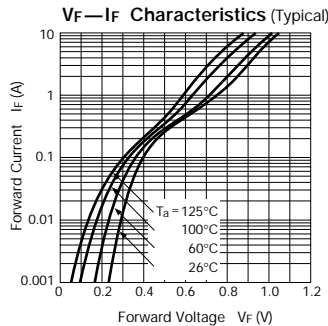
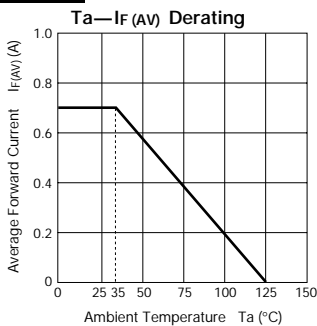
## AK 03, 04



## AK 06

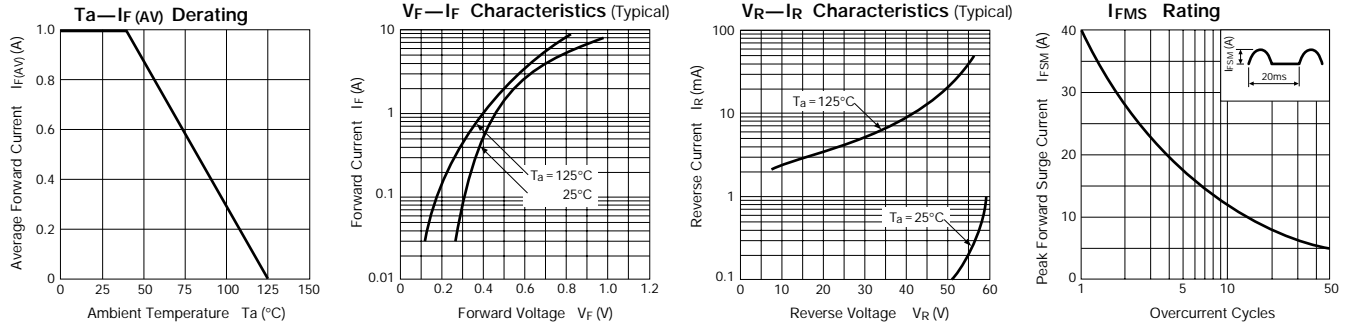


## AK 09

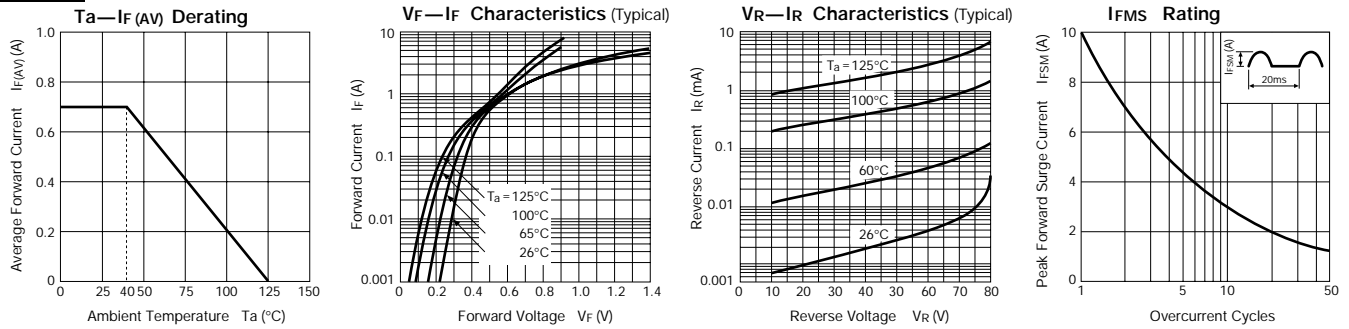


# Characteristic Curves Schottky Barrier Diodes

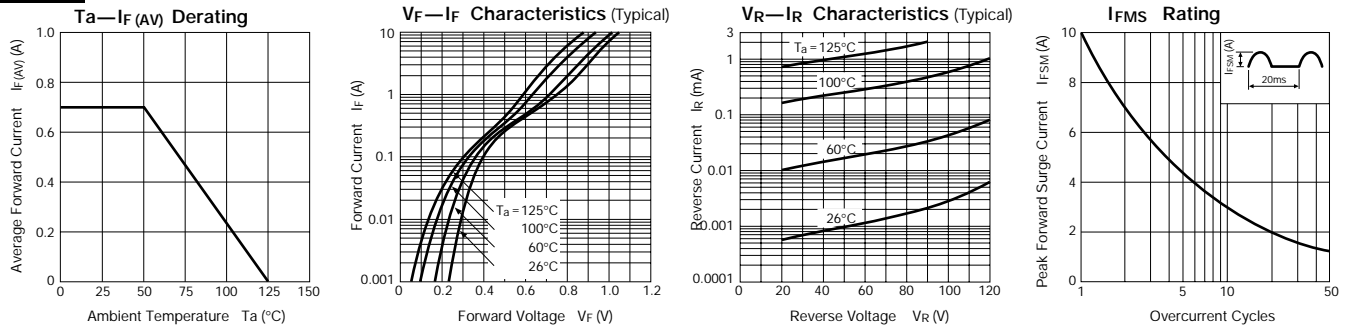
## EK 03, 04



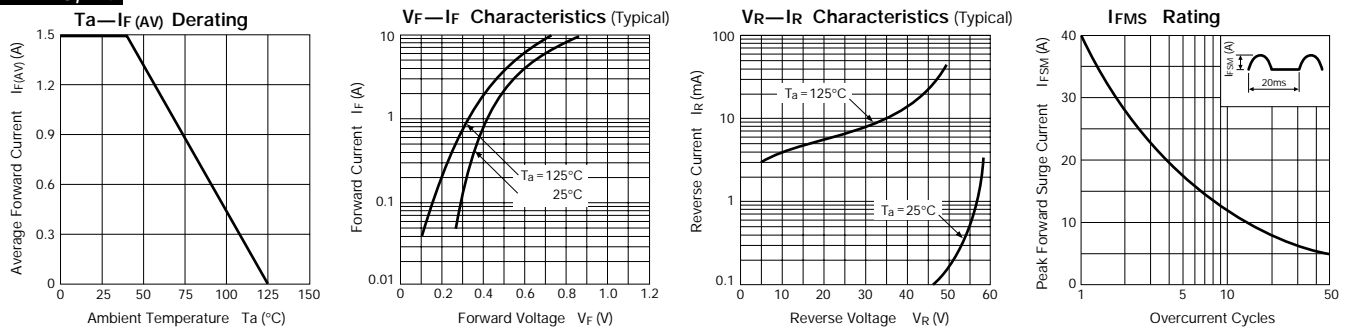
## EK 06



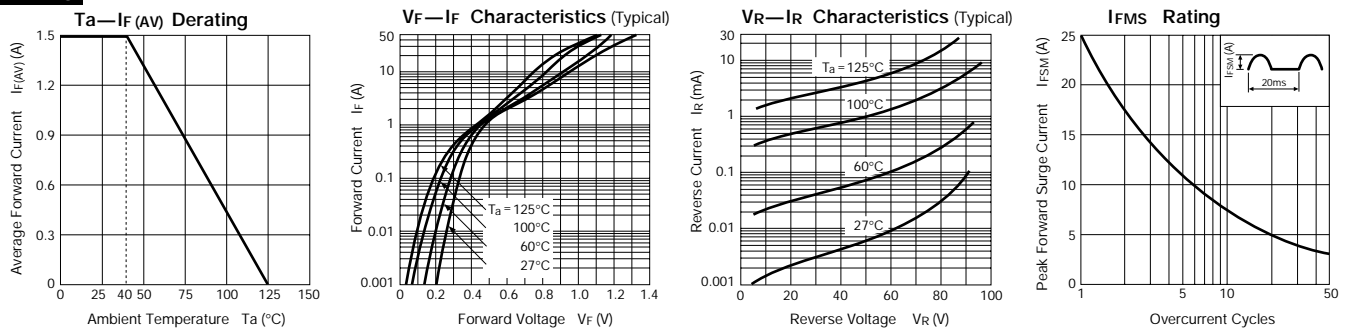
## EK 09



## EK 13, 14

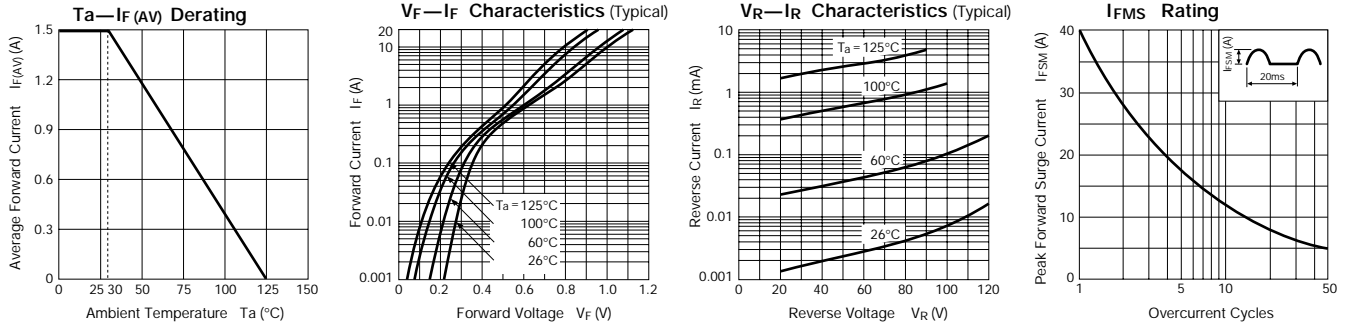


## EK 16

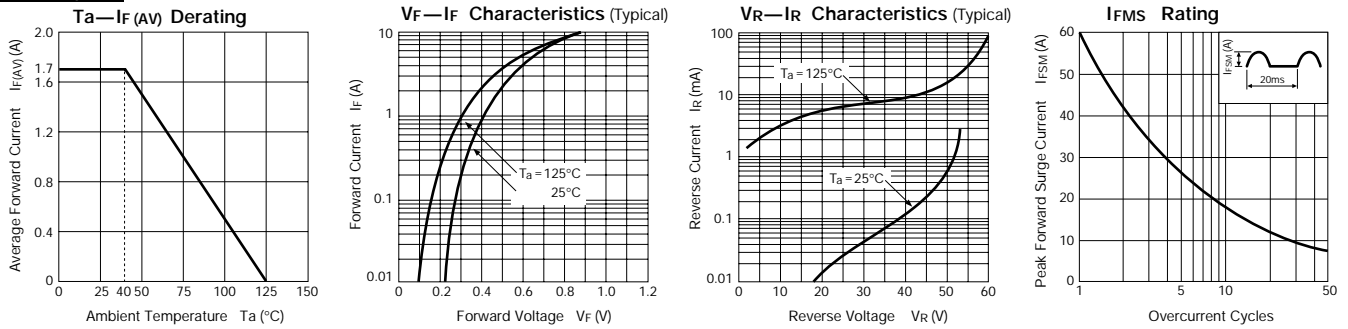


# Characteristic Curves Schottky Barrier Diodes

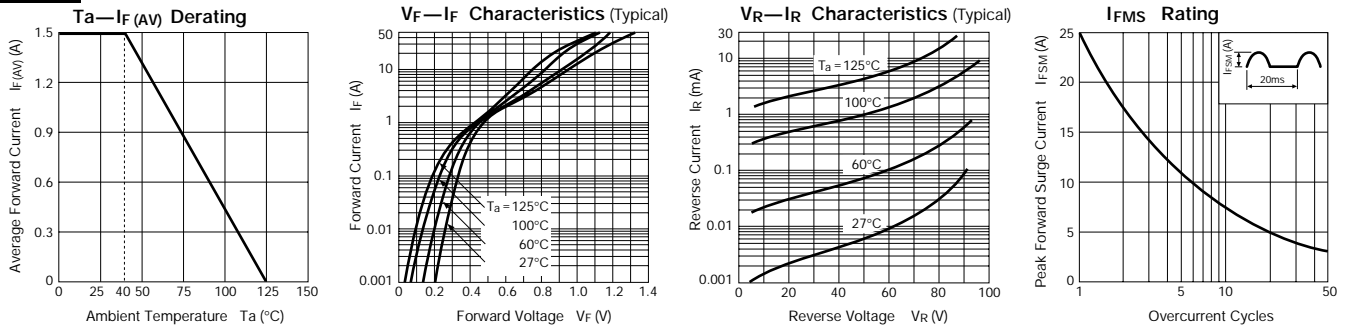
## EK 19



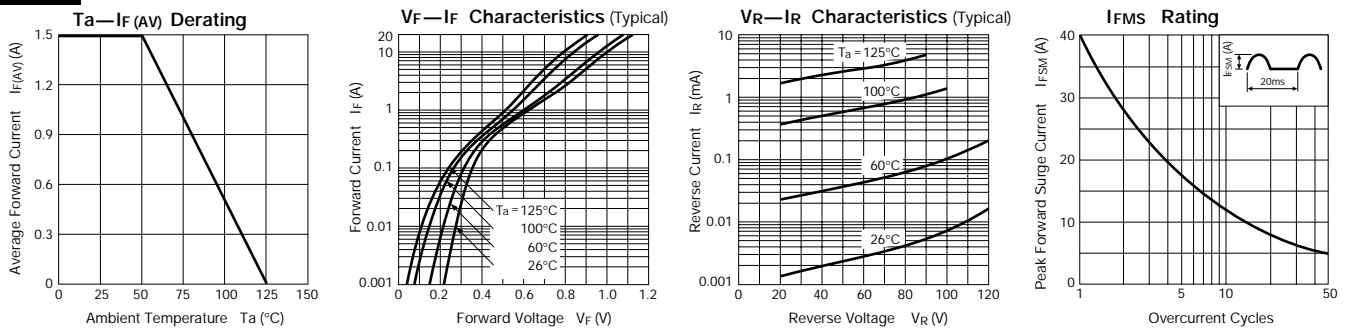
## RK 13, 14



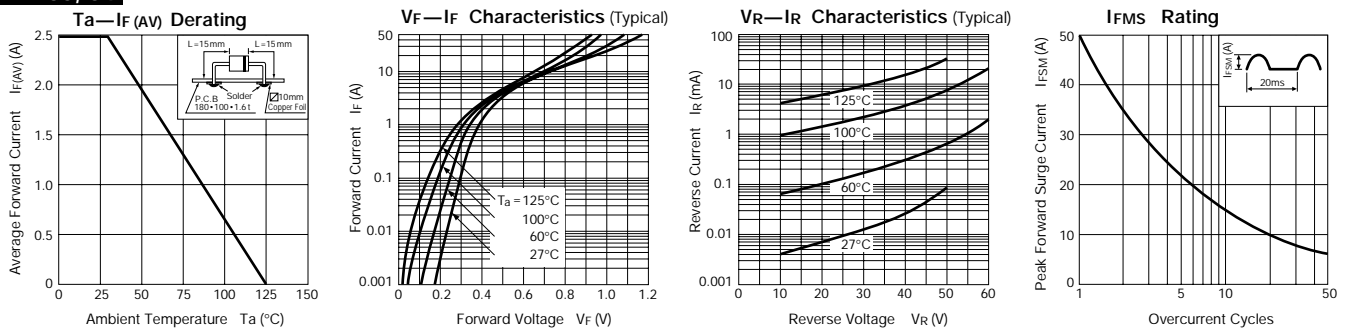
## RK 16



## RK 19

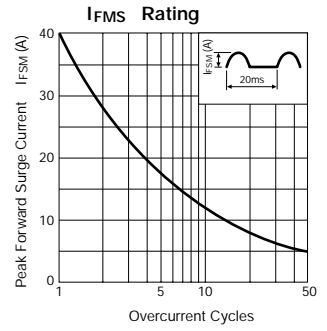
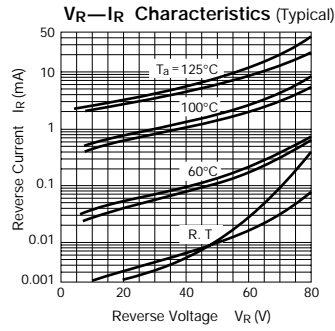
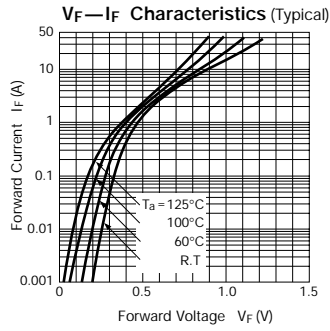
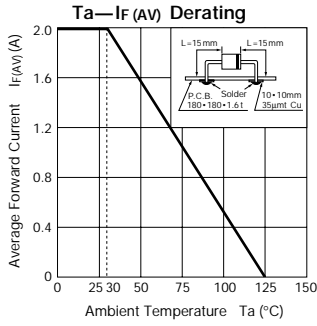


## RK 33, 34

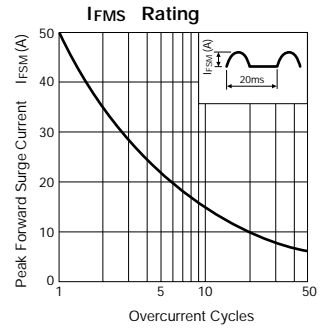
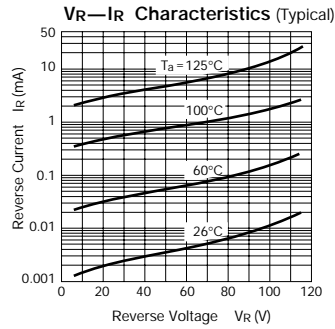
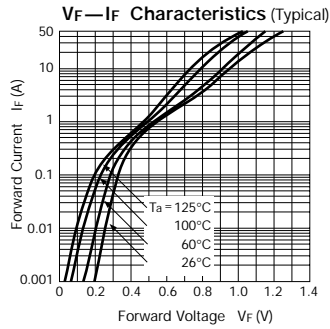
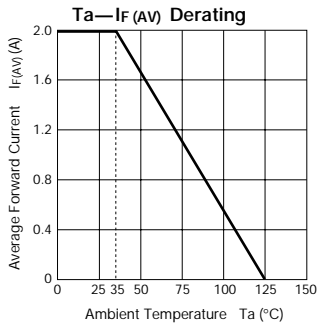


# Characteristic Curves Schottky Barrier Diodes

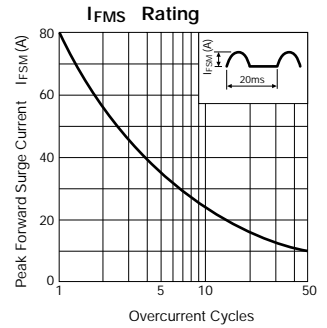
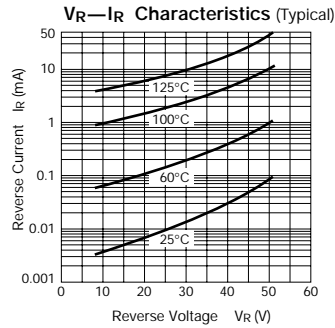
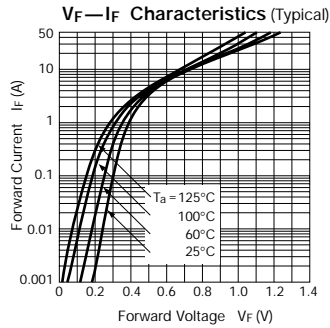
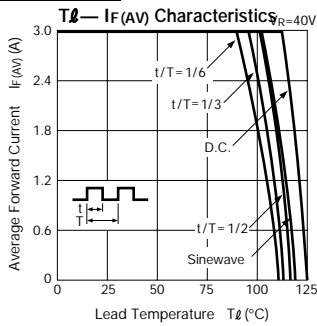
## RK 36



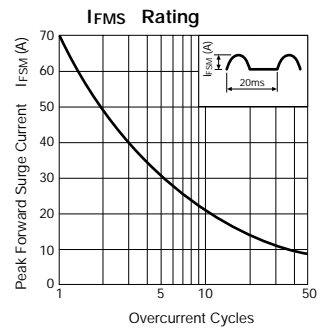
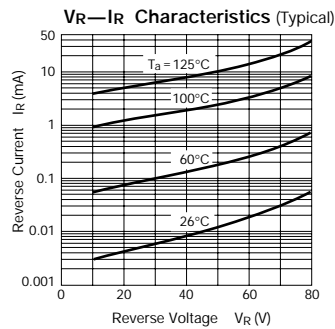
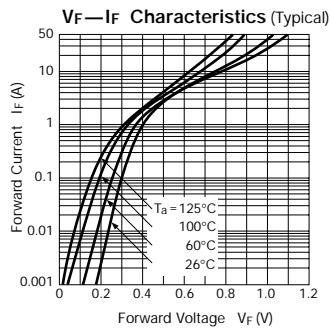
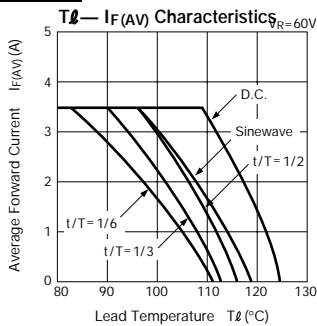
## RK 39



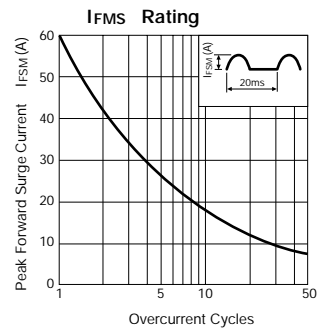
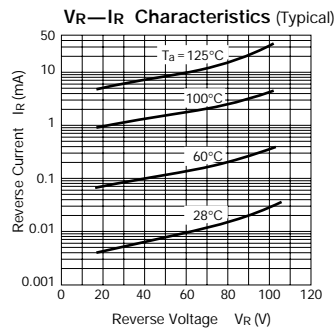
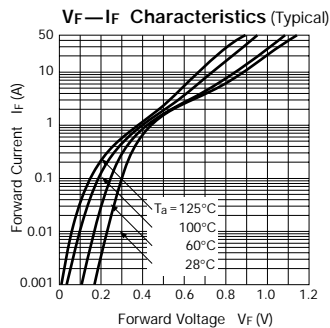
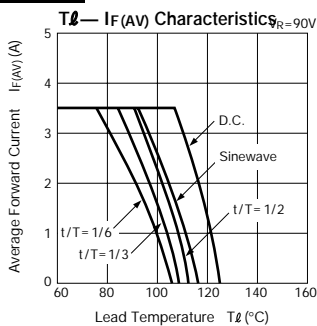
## RK 43, 44



## RK 46

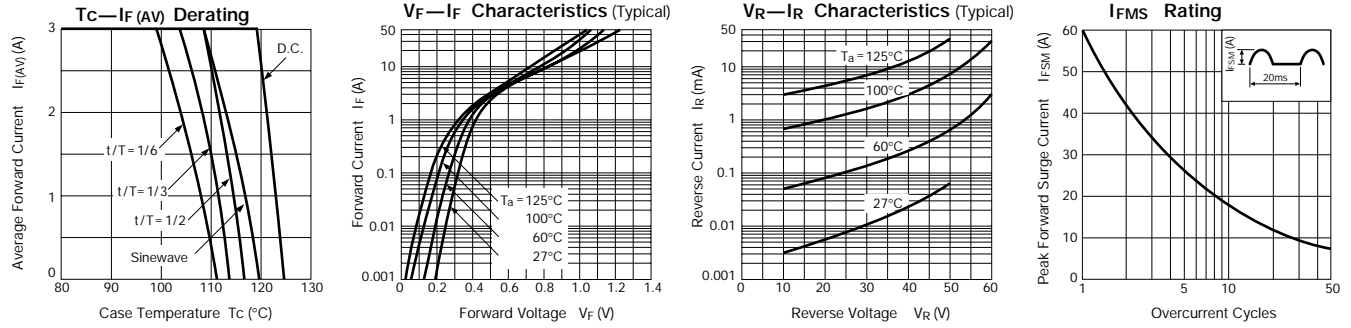


## RK 49

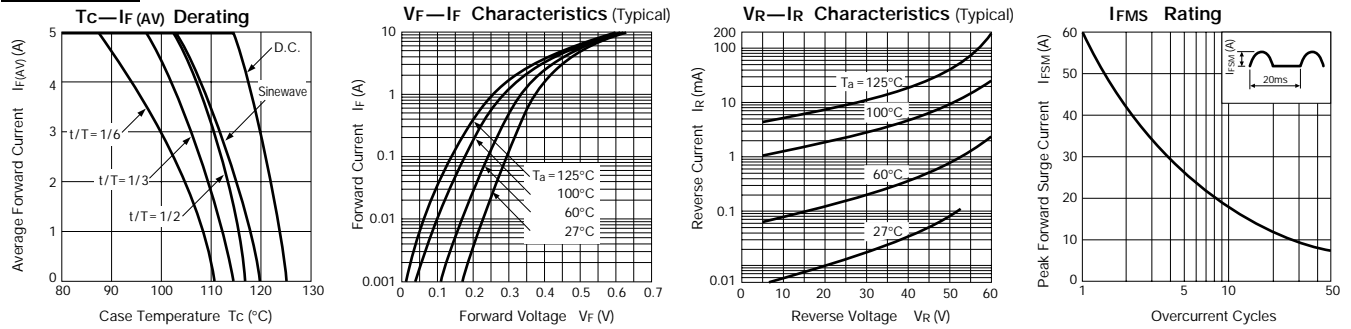


# Characteristic Curves Schottky Barrier Diodes

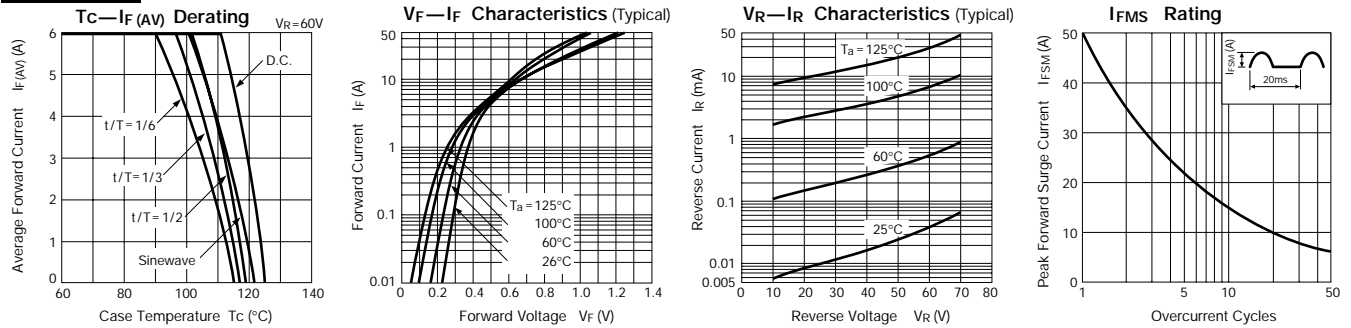
## FMB-G14



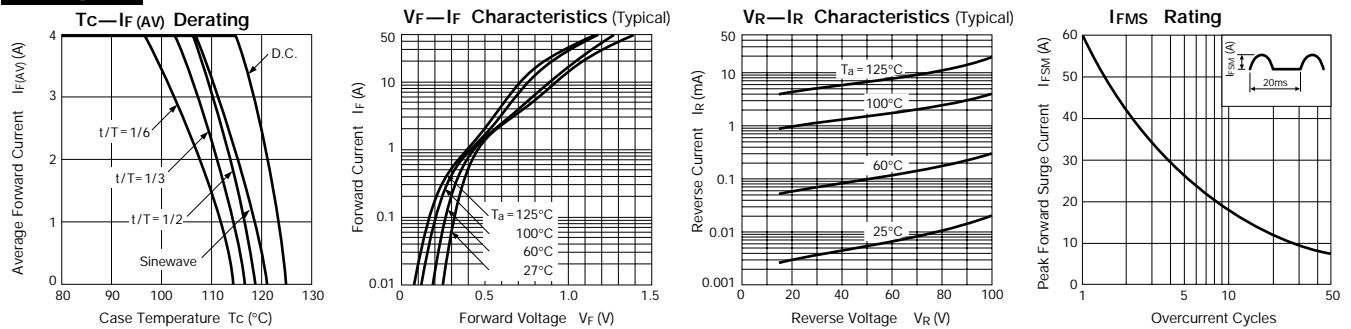
## FMB-G14L



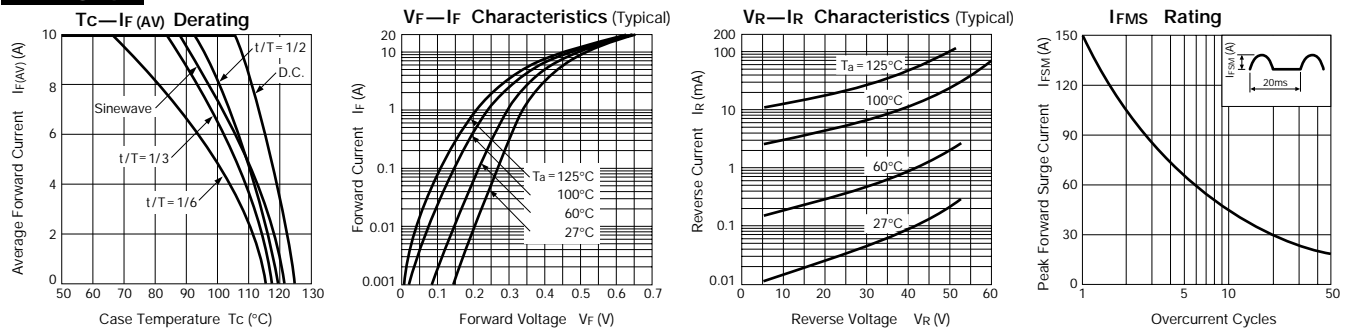
## FMB-G16L



## FMB-G19L



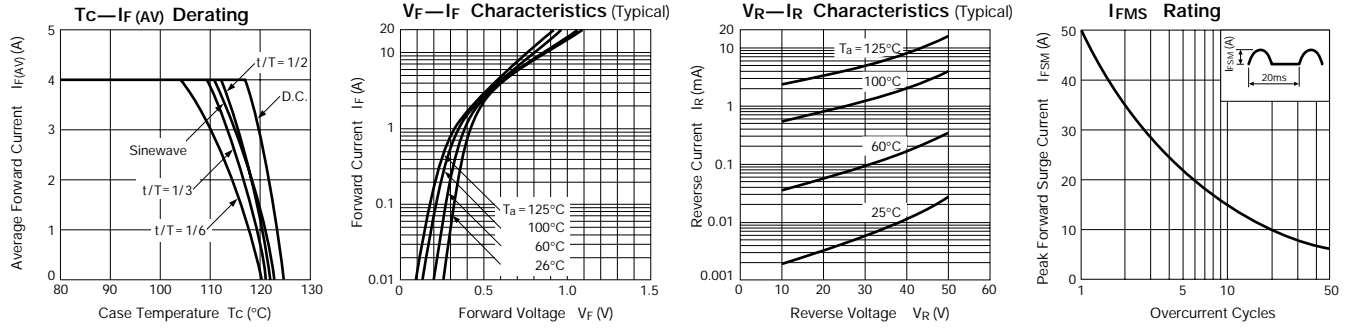
## FMB-G24H



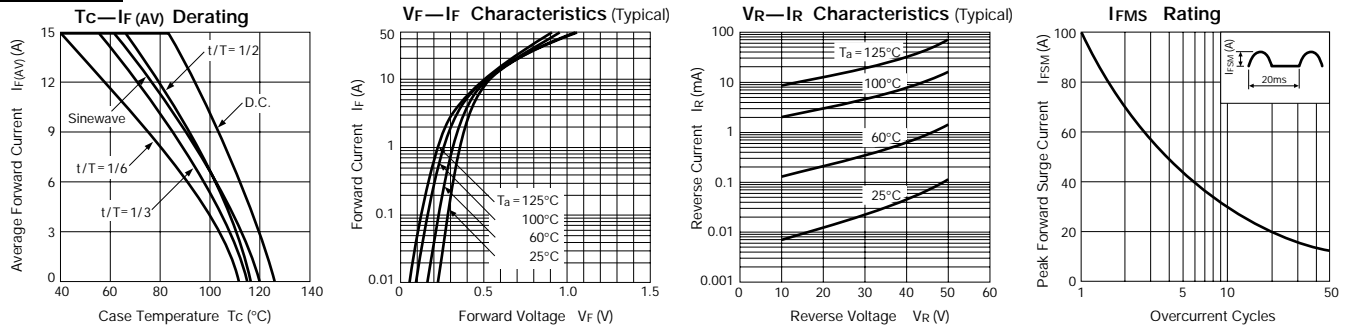


# Characteristic Curves Schottky Barrier Diodes

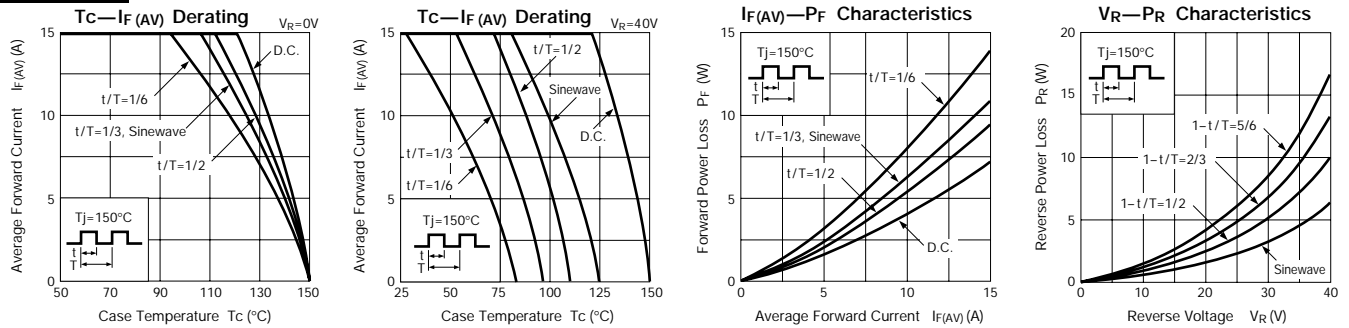
## FMB-24



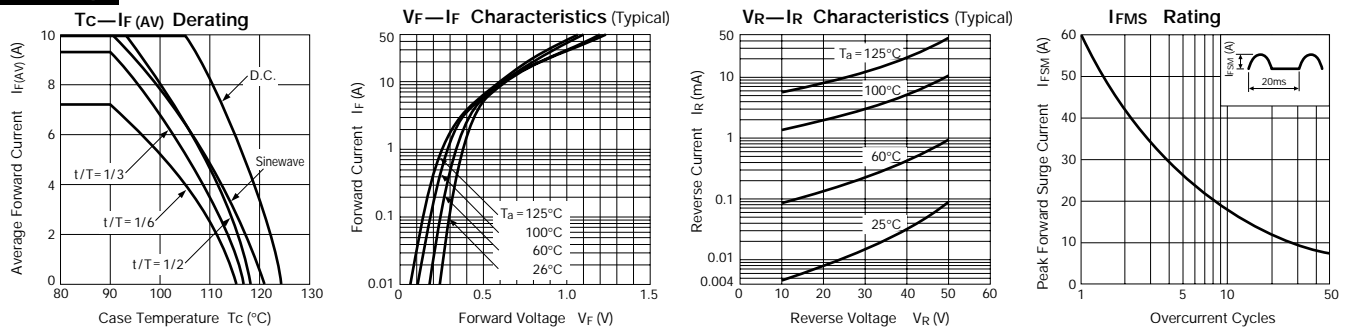
## FMB-24H



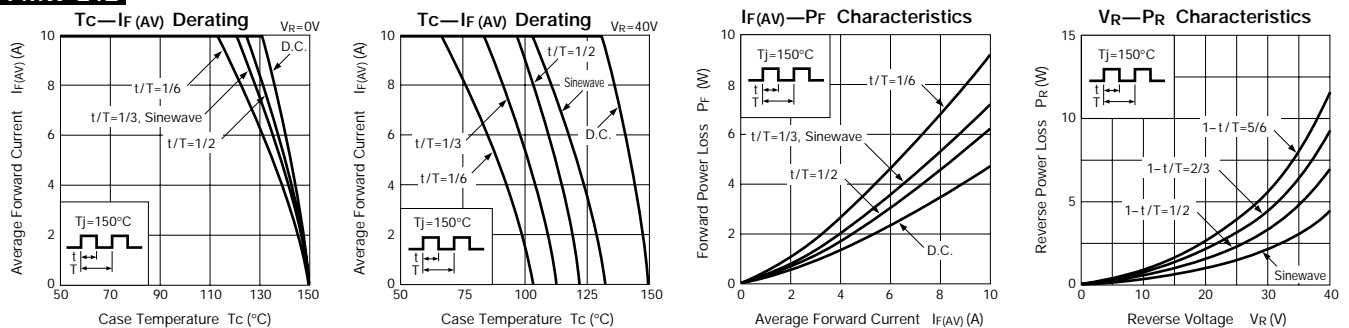
## FMW-24H



## FMB-24L

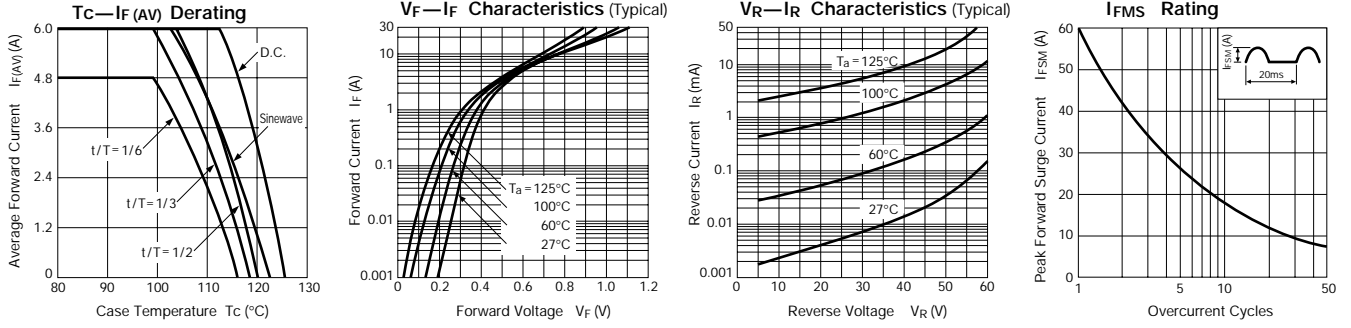


## FMW-24L

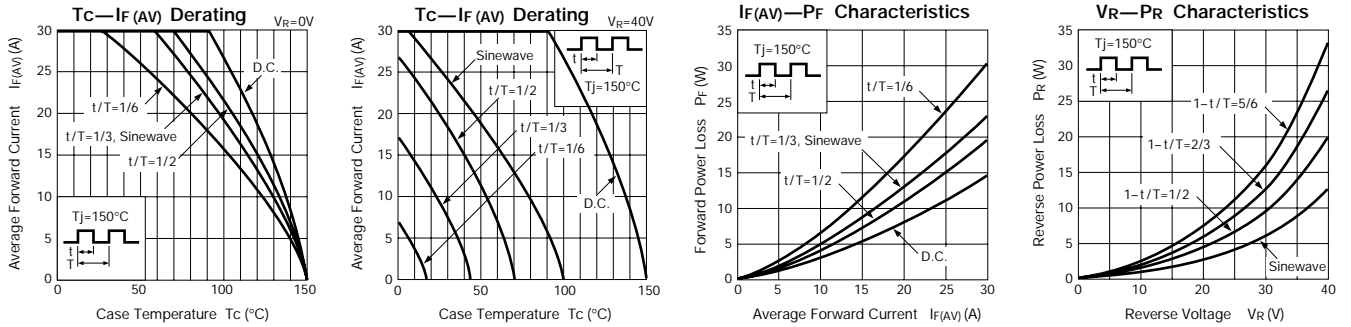


# Characteristic Curves Schottky Barrier Diodes

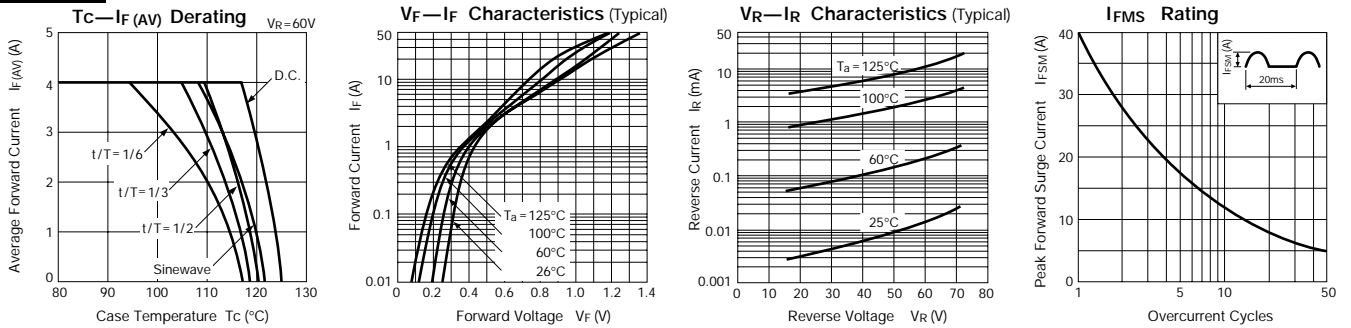
## FMB-24M



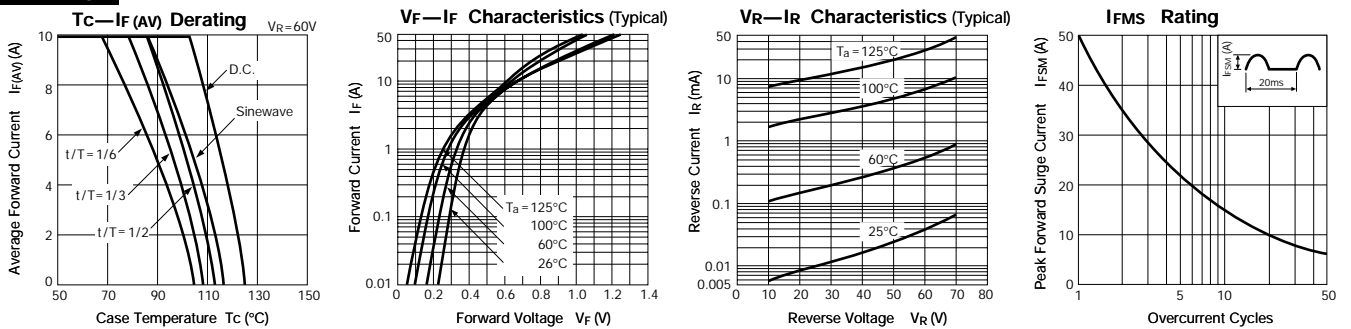
## FMB-2304



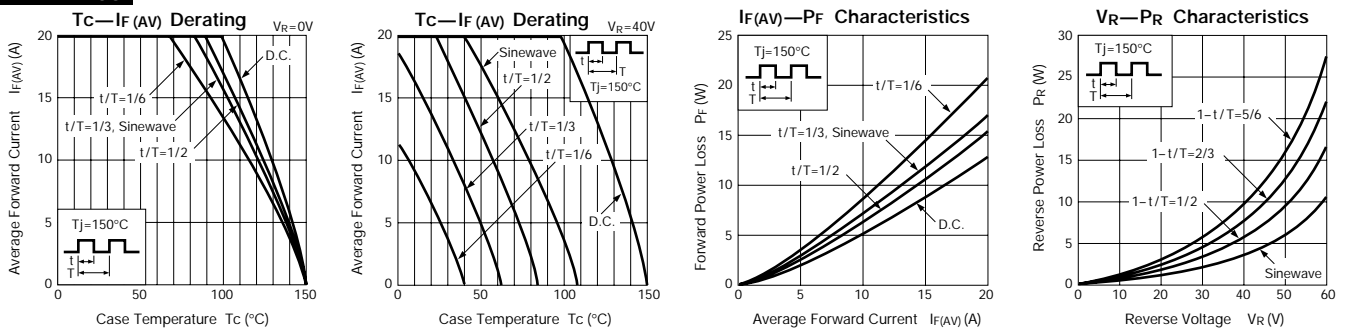
## FMB-26



## FMB-26L

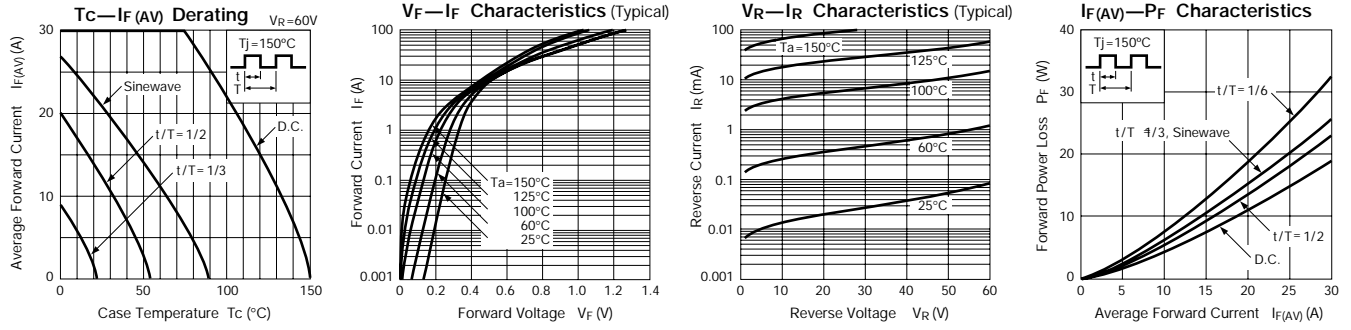


## FMB-2206

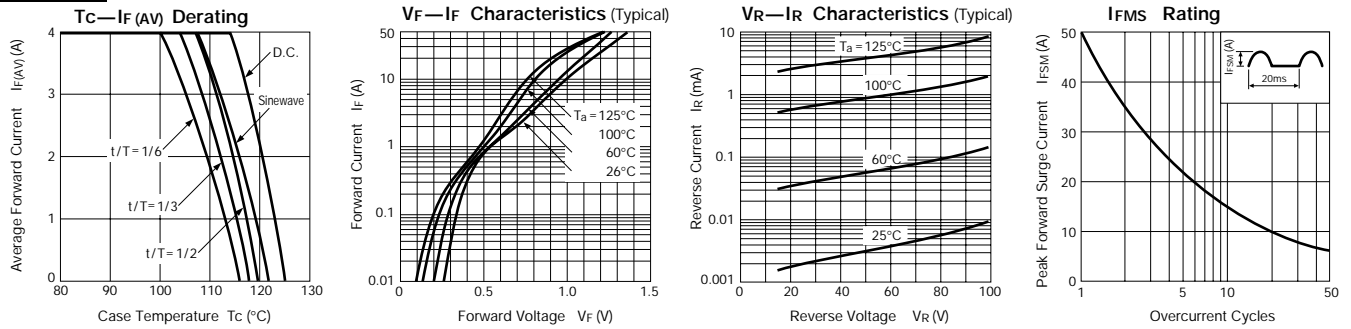


# Characteristic Curves Schottky Barrier Diodes

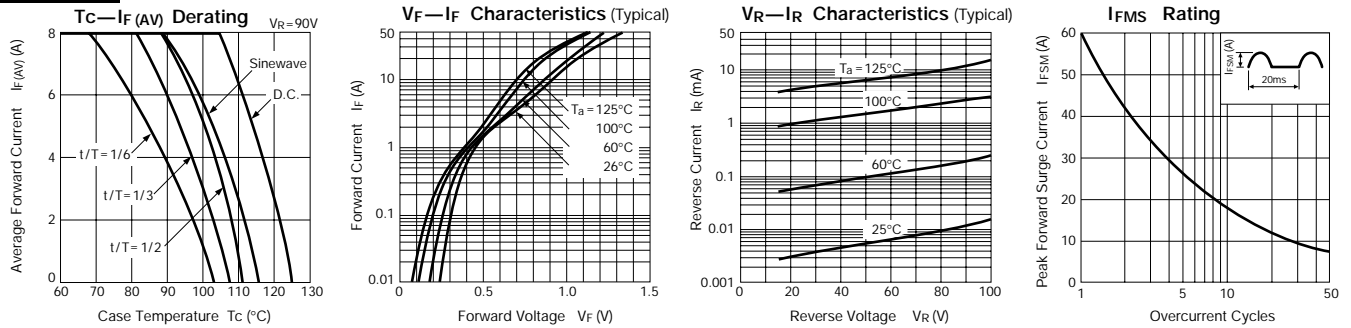
## FMB-2306



## FMB-29



## FMB-29L



## FME-24H

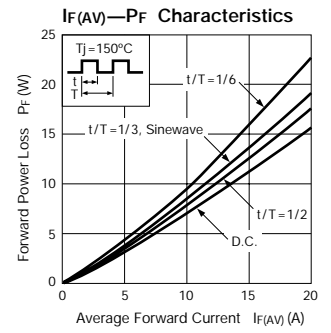
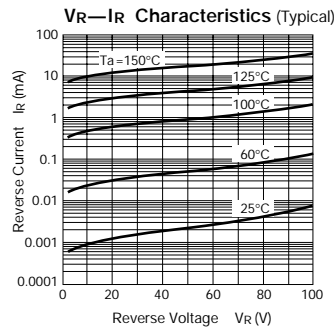
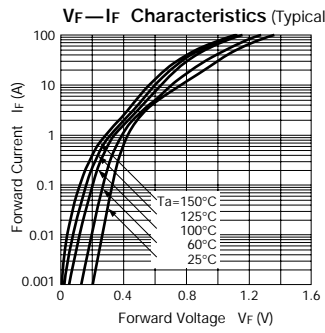
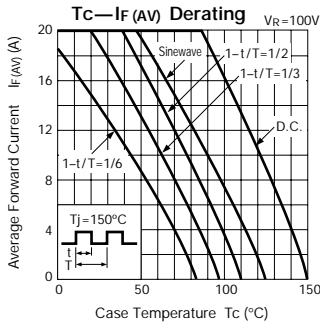


## FME-24L

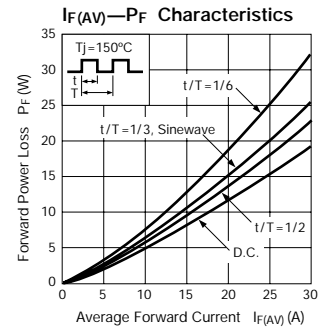
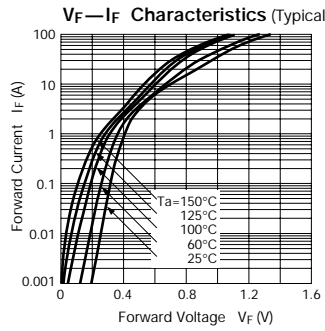
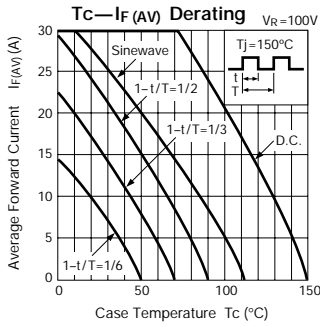


# Characteristic Curves Schottky Barrier Diodes

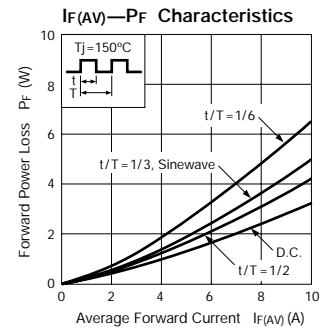
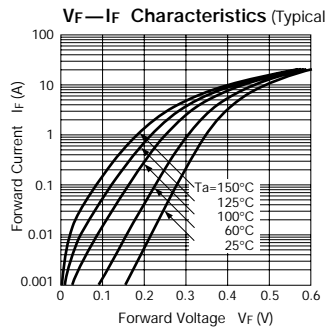
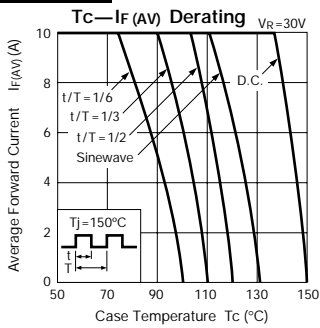
## FME-220A



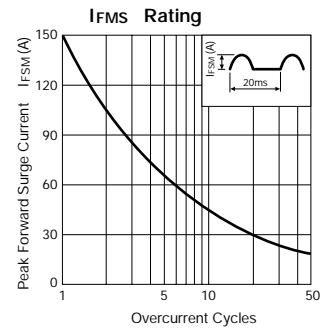
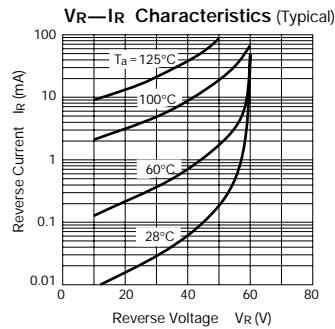
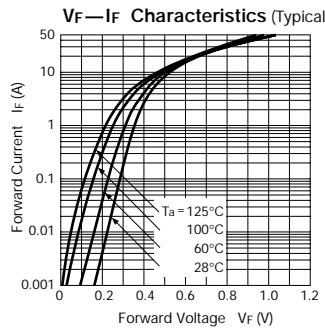
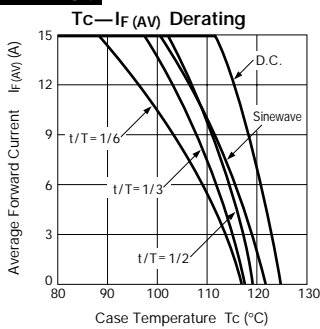
## FME-230A



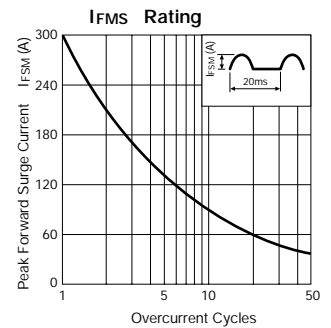
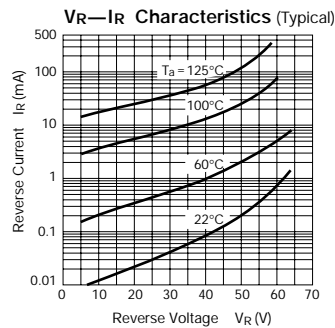
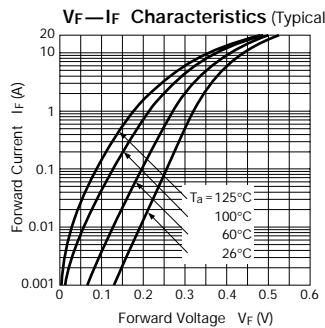
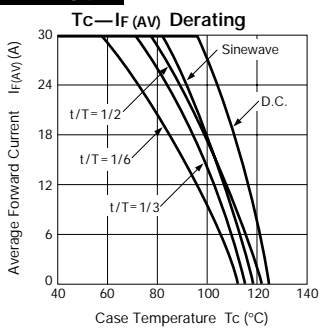
## FMJ-23L



## FMB-34

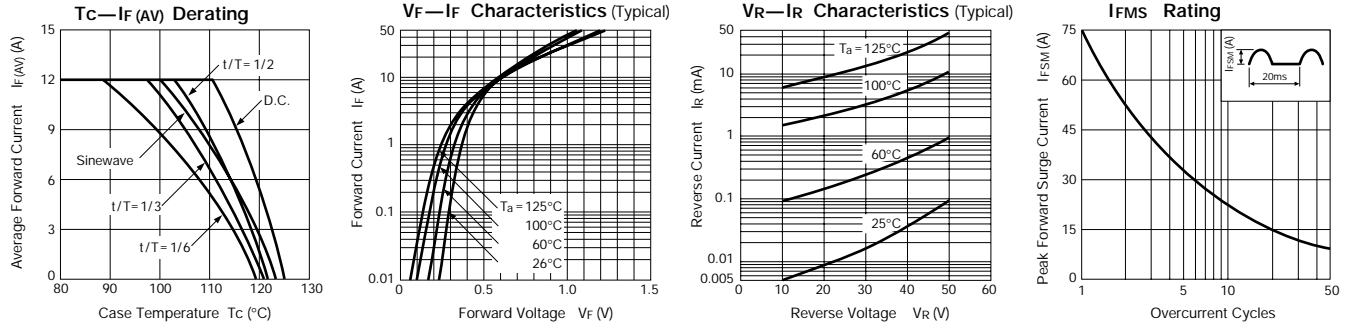


## FMB-34M

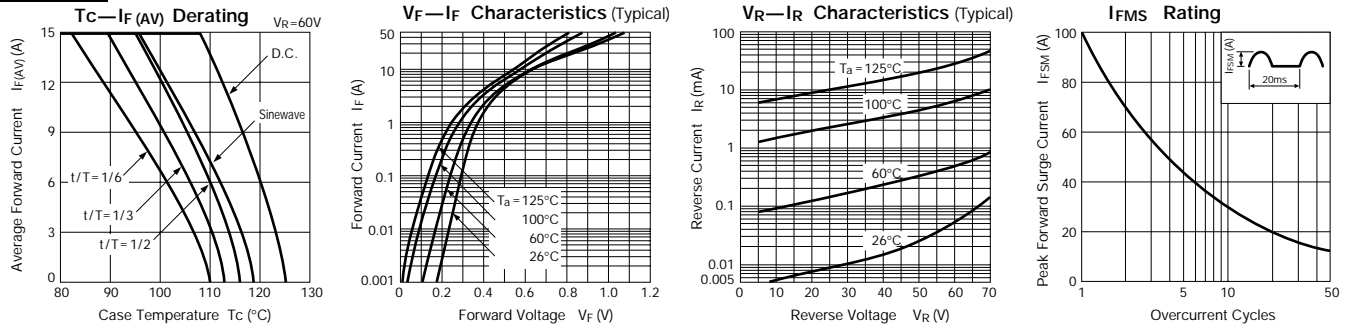


# Characteristic Curves Schottky Barrier Diodes

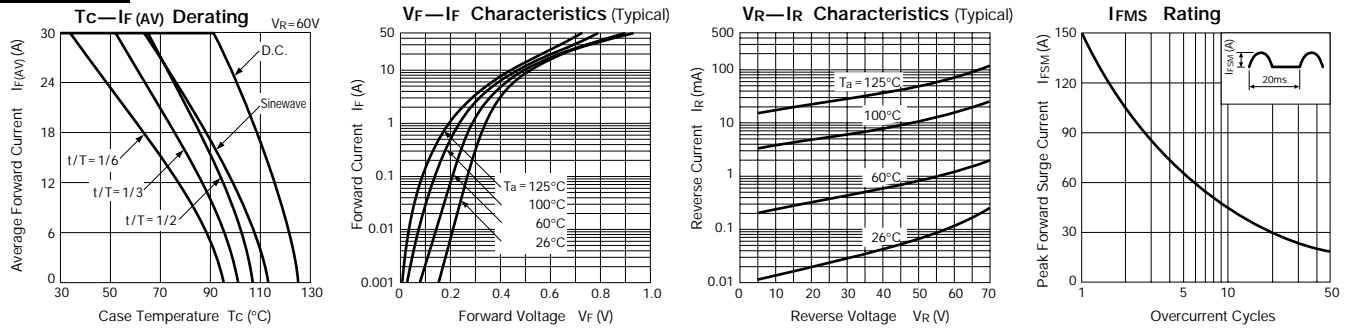
## FMB-34S



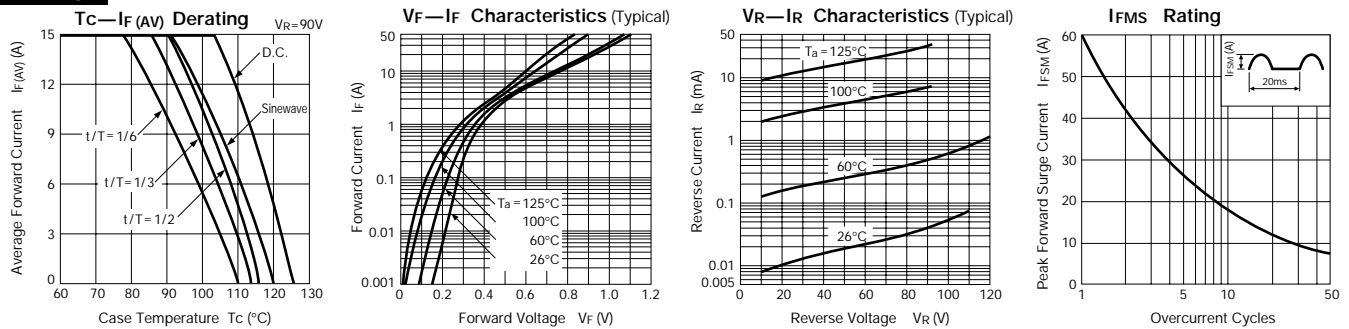
## FMB-36



## FMB-36M



## FMB-39

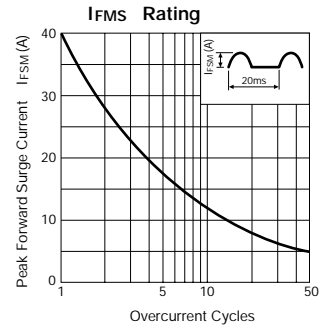
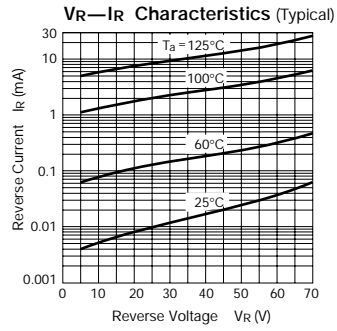
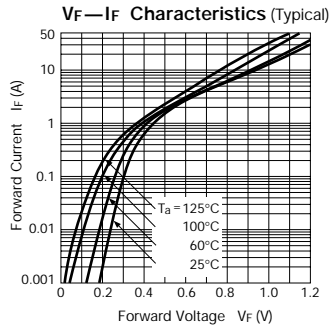
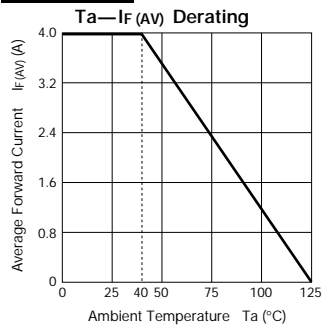


## FMB-39M



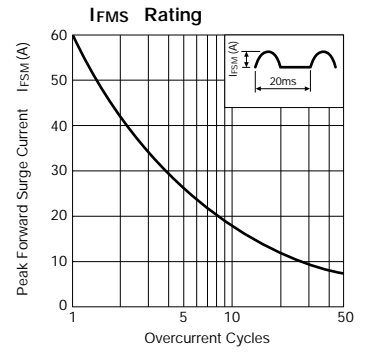
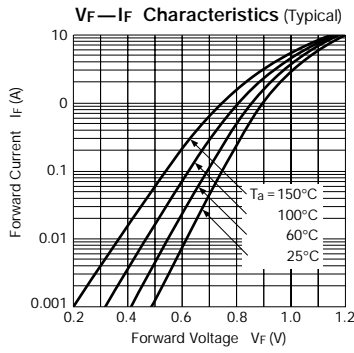
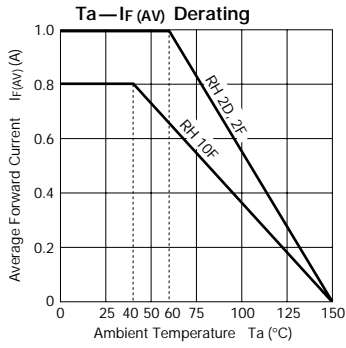
# Schottky Barrier Diodes

## RBV-406B

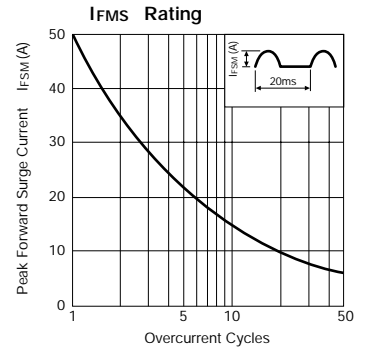
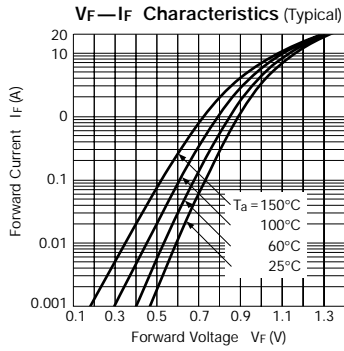
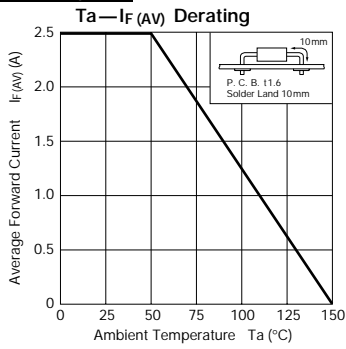


# Characteristic Curves Damper Diodes

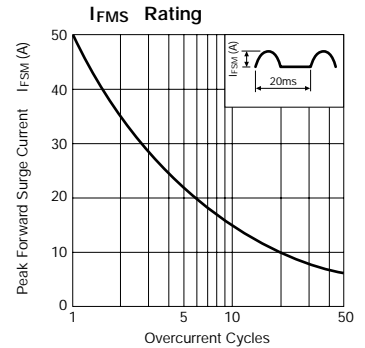
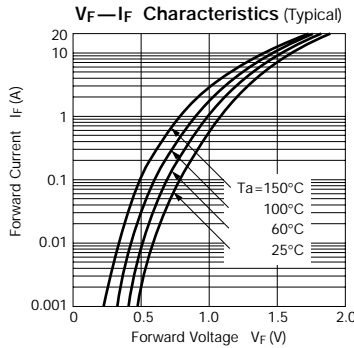
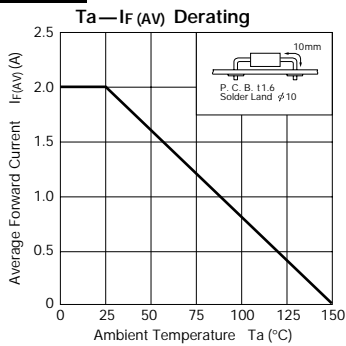
## RH 10F, 2D, 2F



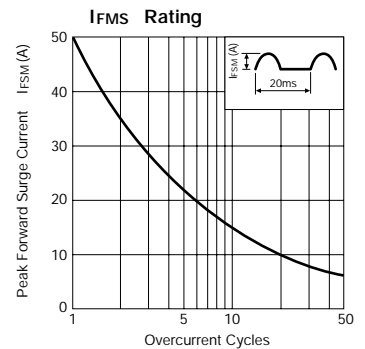
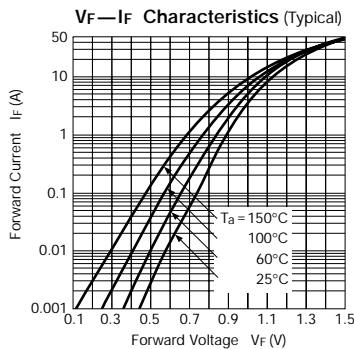
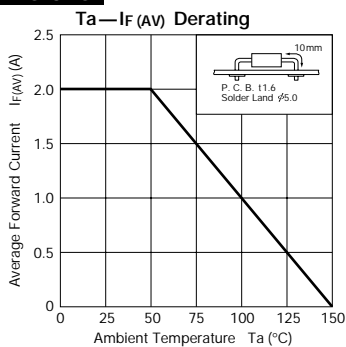
## RH 3F, 3G



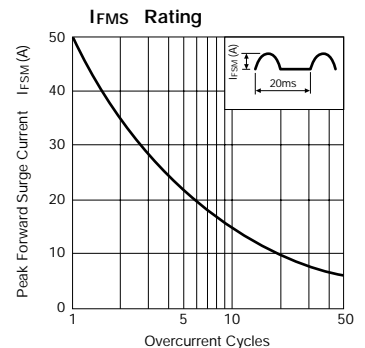
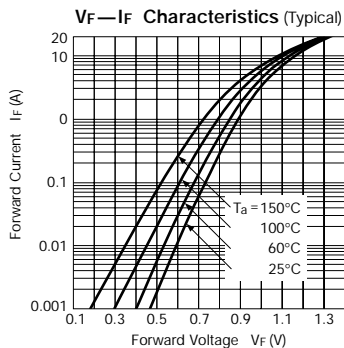
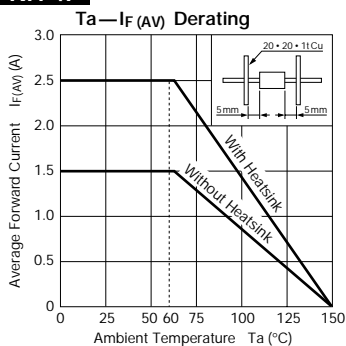
## RP 3F



## RS 3FS

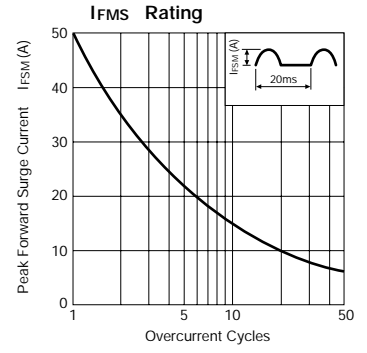
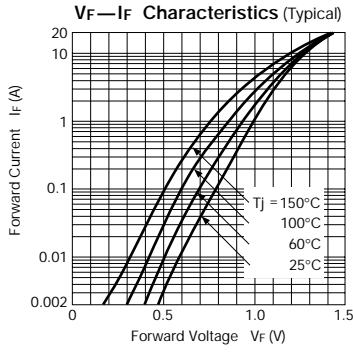
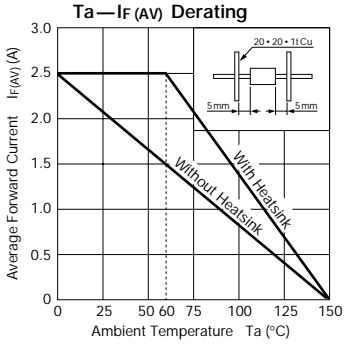


## RH 4F

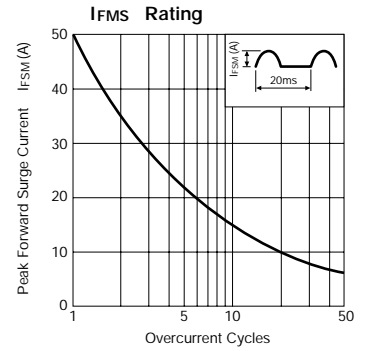
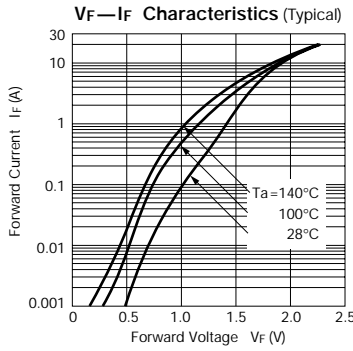
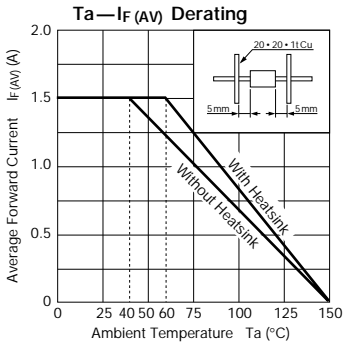


# Characteristic Curves Damper Diodes

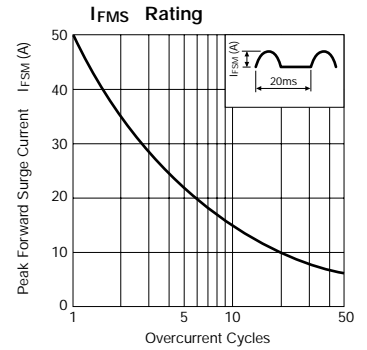
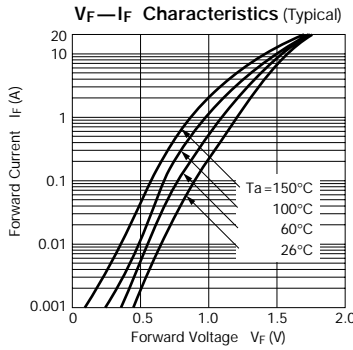
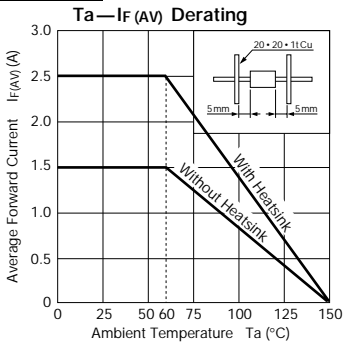
## RS 4FS



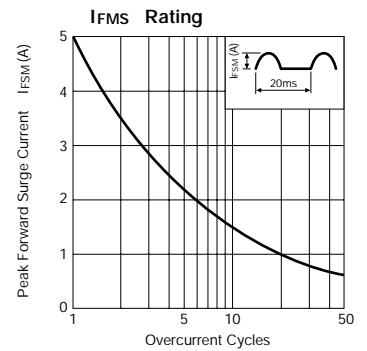
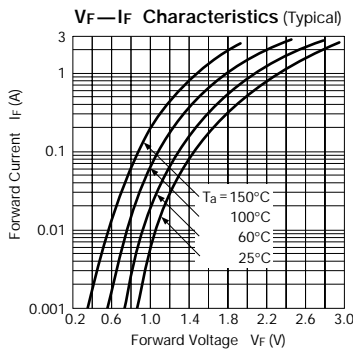
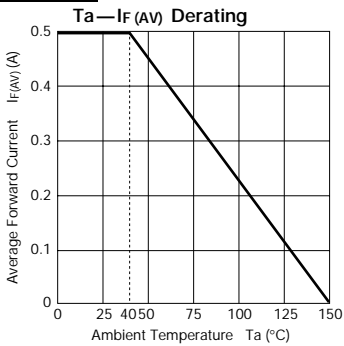
## RU 4D



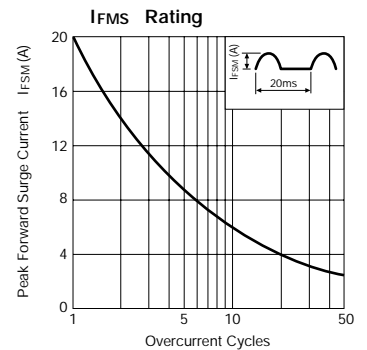
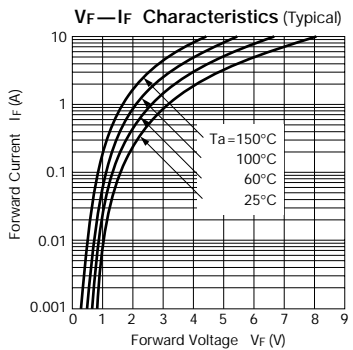
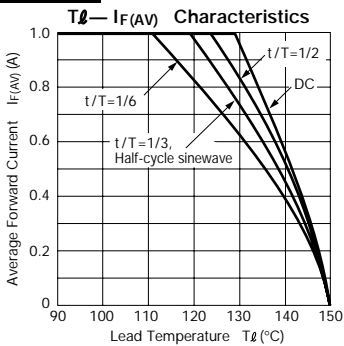
## RU 4DS



## RG 2A2



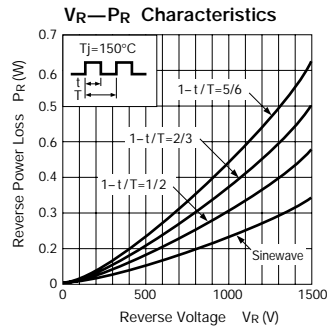
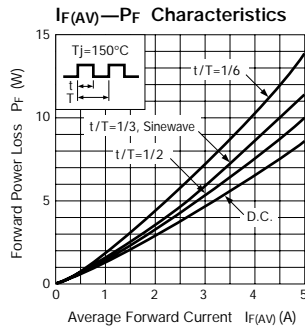
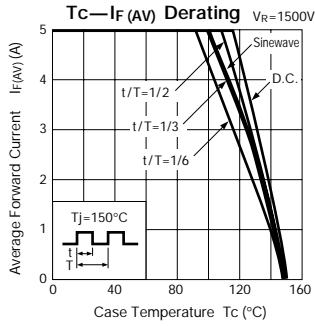
## RC 3B2



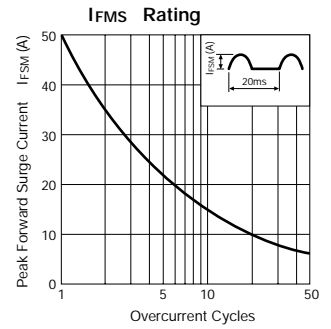
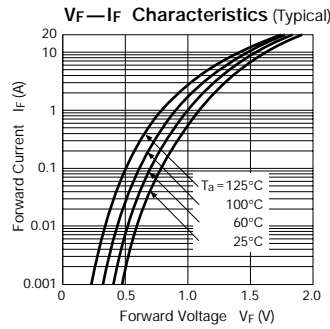
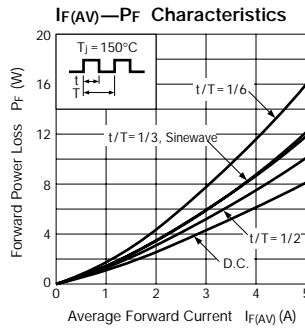
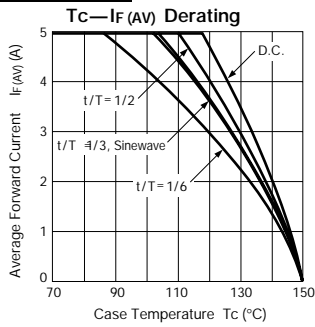


# Characteristic Curves Damper Diodes

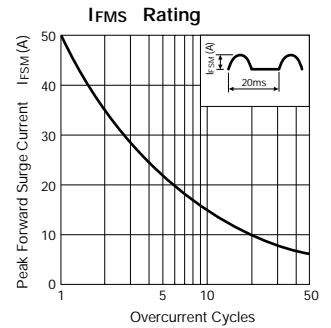
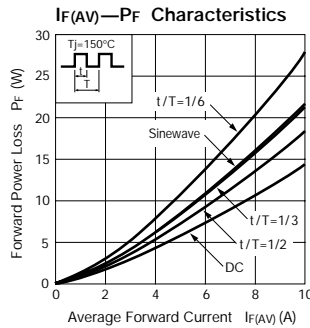
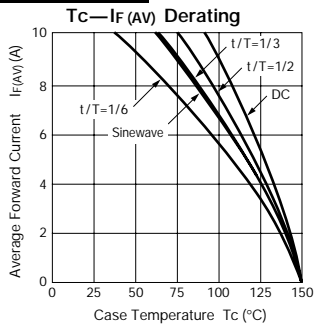
## FMQ-G1FS



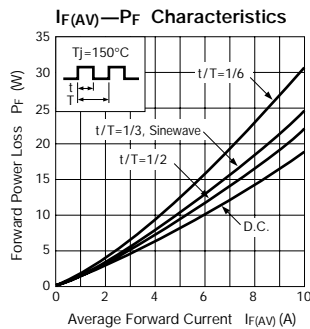
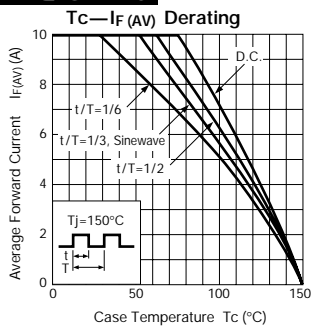
## FMP-G2FS



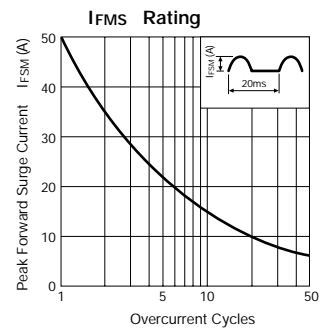
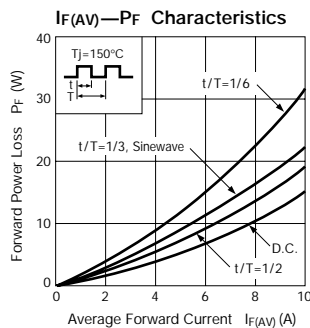
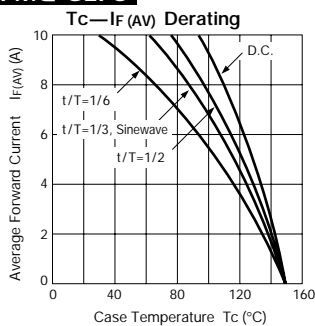
## FMQ-G2FLS



## FMQ-G2FMS

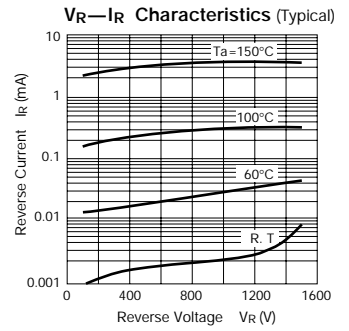
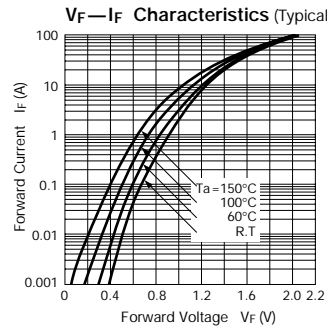
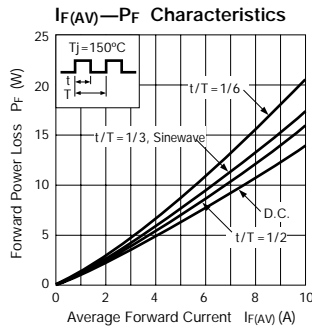
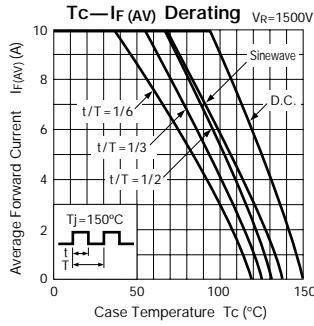


## FMQ-G2FS

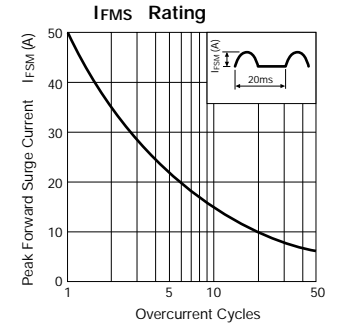
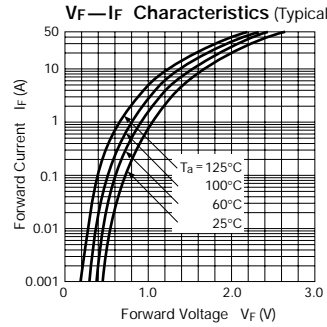
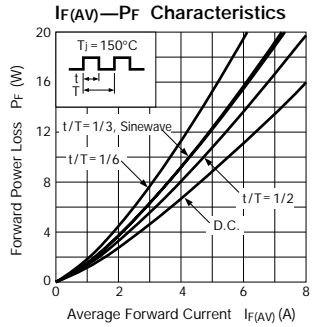
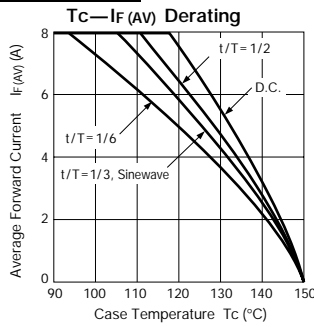


# Characteristic Curves Damper Diodes

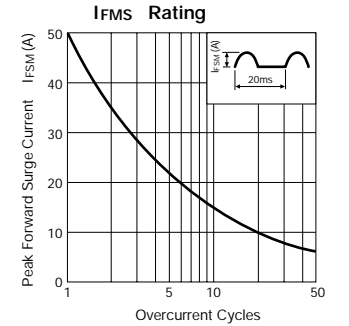
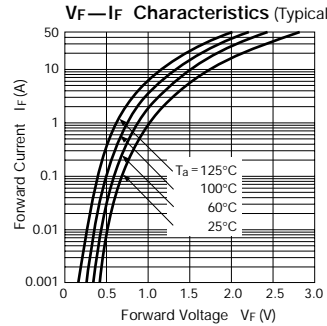
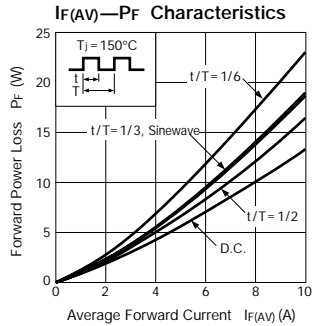
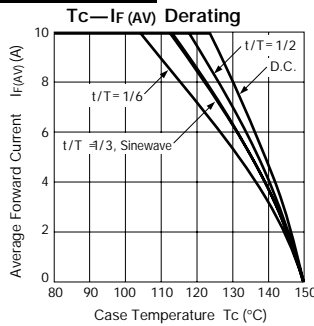
## FMU-G2FS



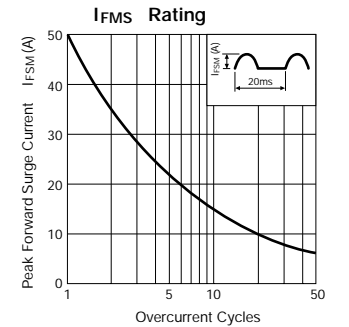
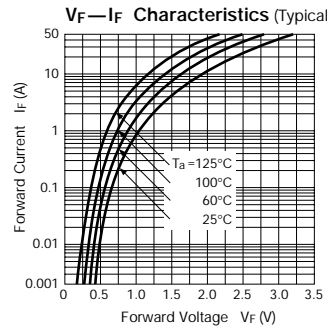
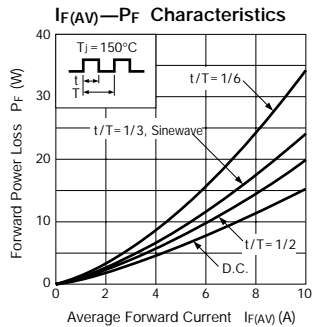
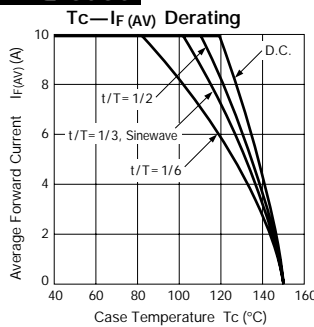
## FMP-G5HS



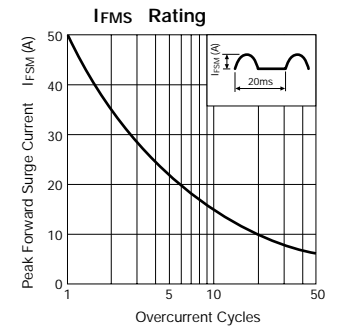
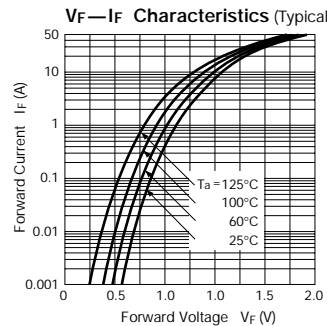
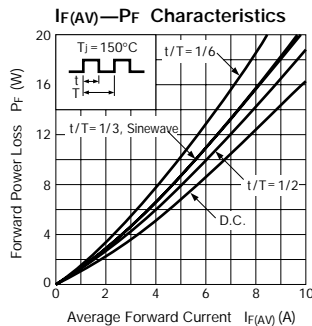
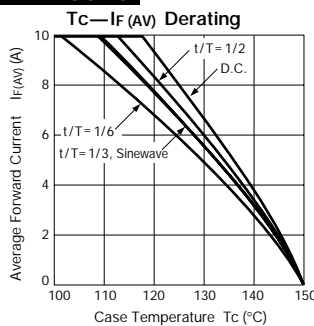
## FMQ-G5FMS



## FMQ-G5GS

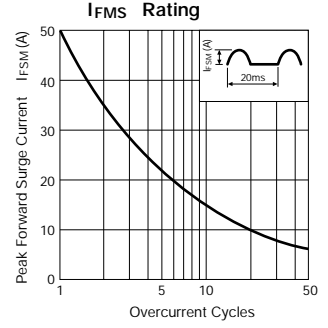
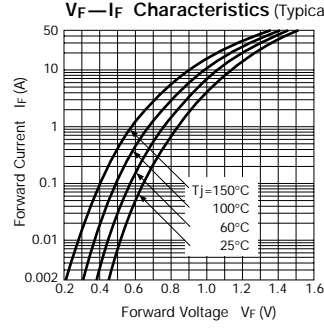
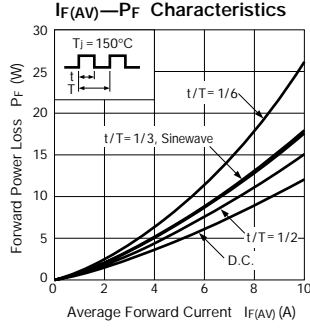
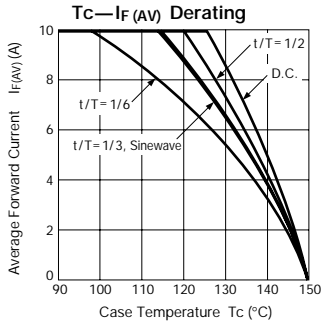


## FMR-G5HS

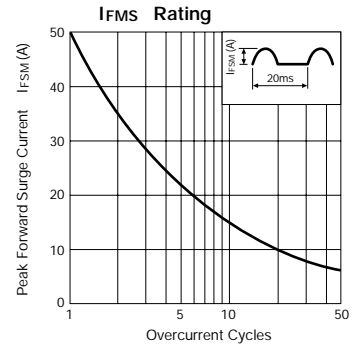
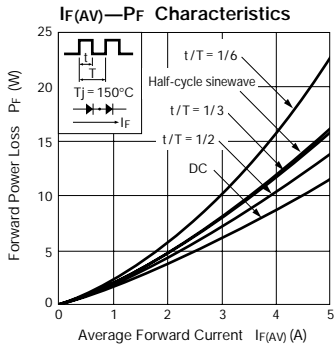
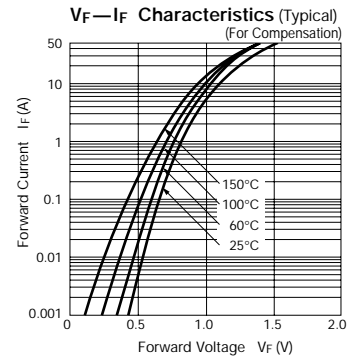
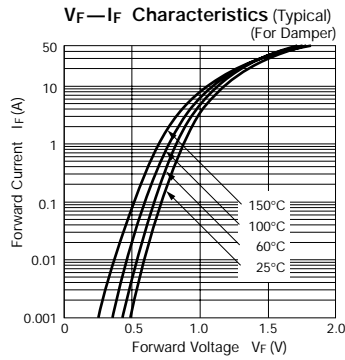
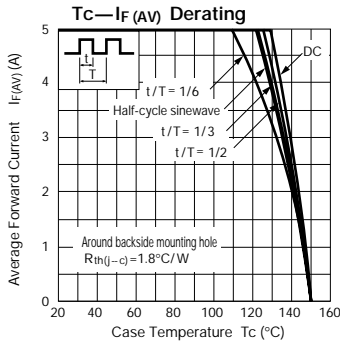


# Characteristic Curves Damper Diodes

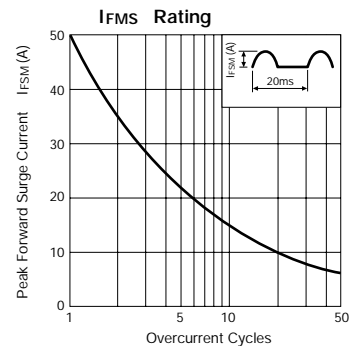
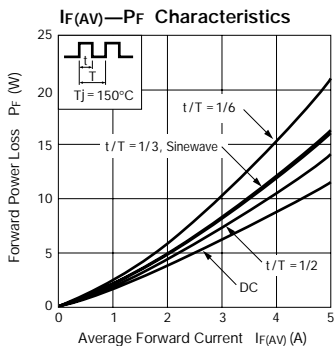
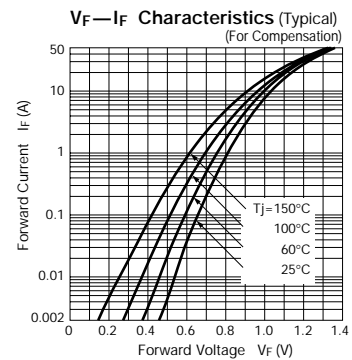
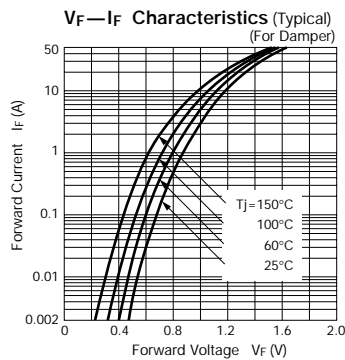
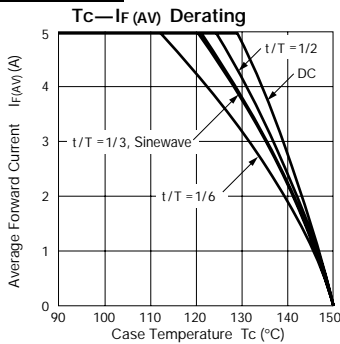
## FMV-G5FS



## FMV-3FU

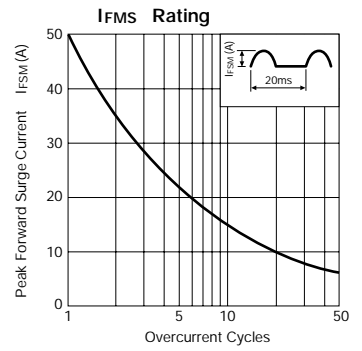
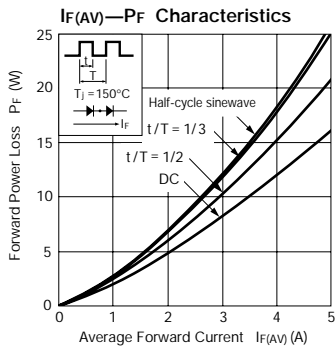
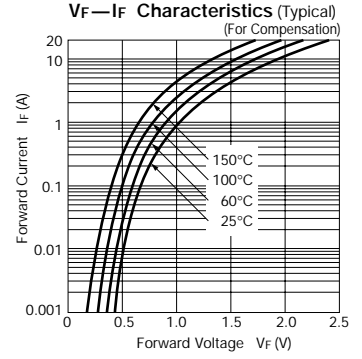
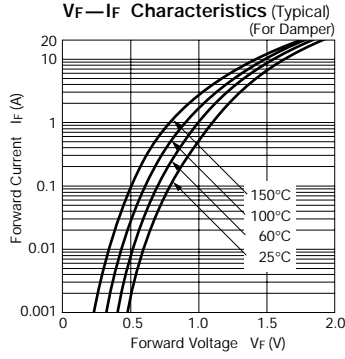
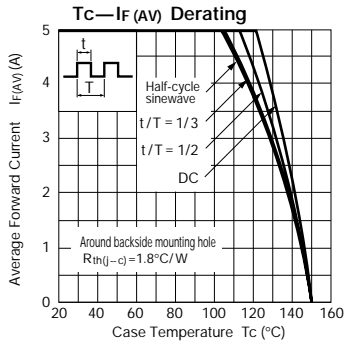


## FMV-3GU

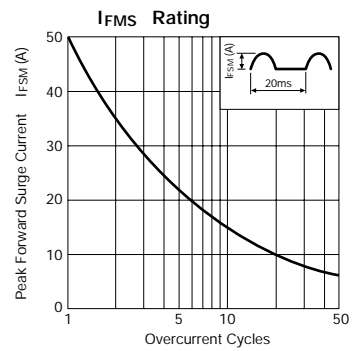
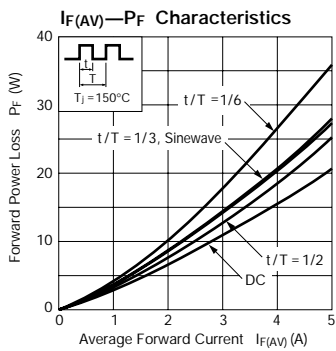
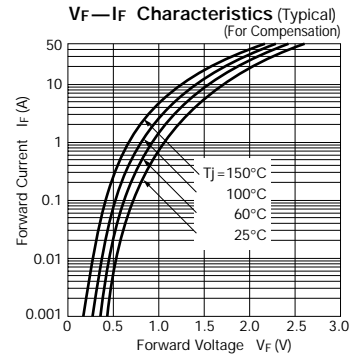
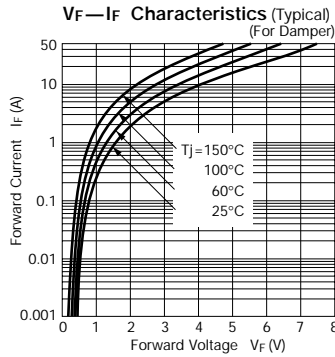
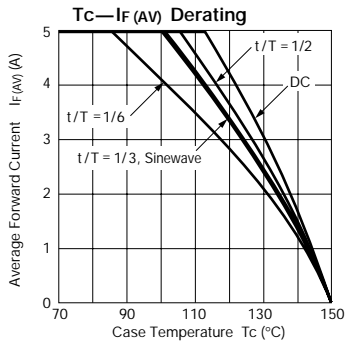


# Characteristic Curves Damper Diodes

## FMP-3FU

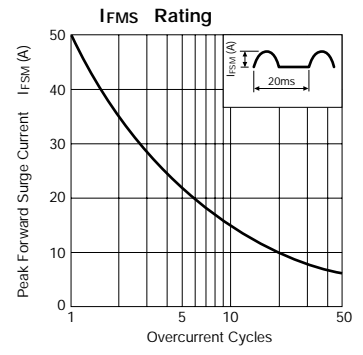
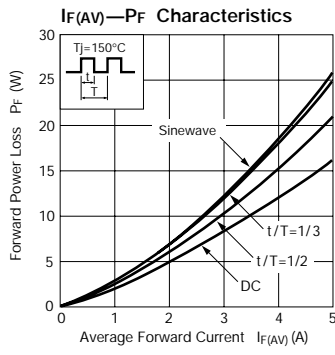
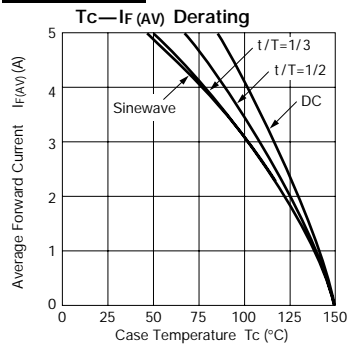


## FMQ-3GU

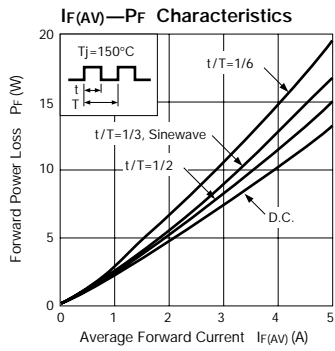
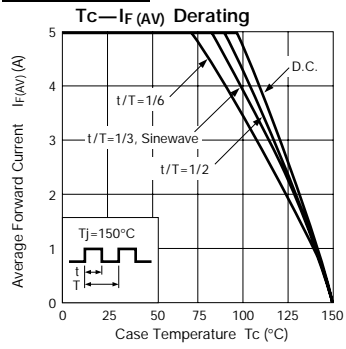


# Characteristic Curves Damper Diodes

## FMP-2FUR

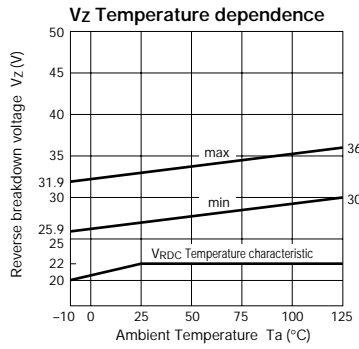
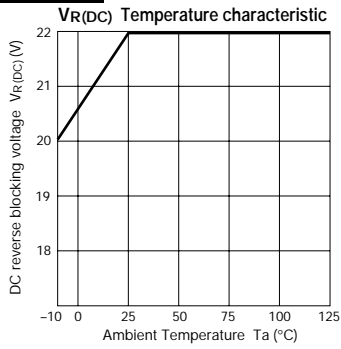


## FMQ-2FUR

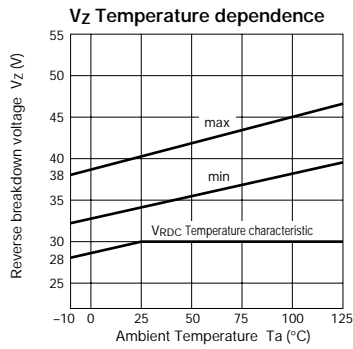
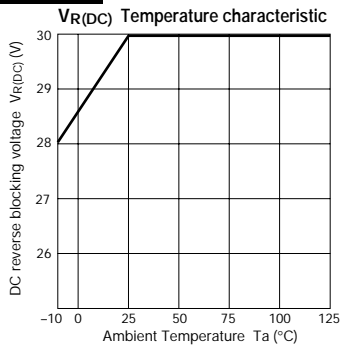


# Avalanche Diodes with built-in Thyristor

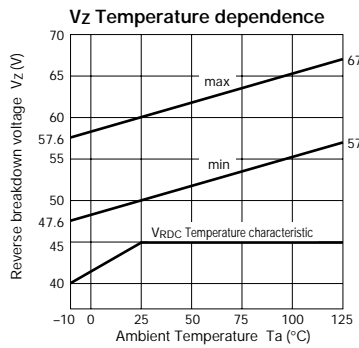
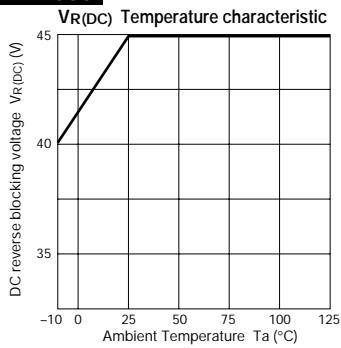
## RZ1030



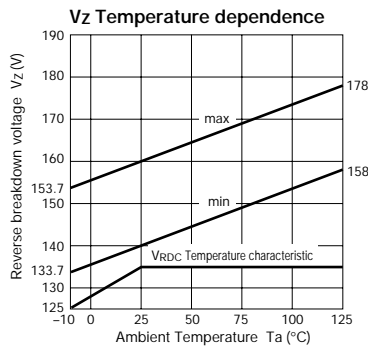
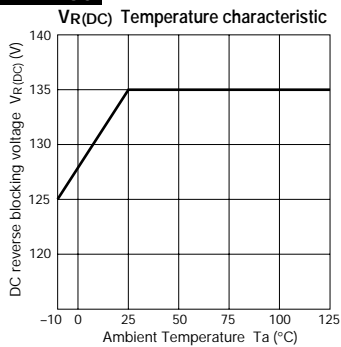
## RZ1040



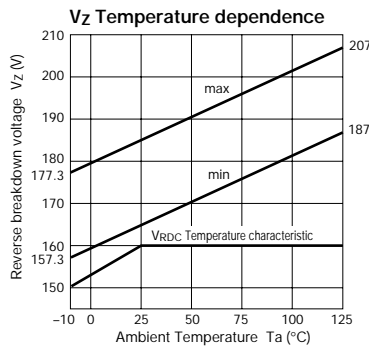
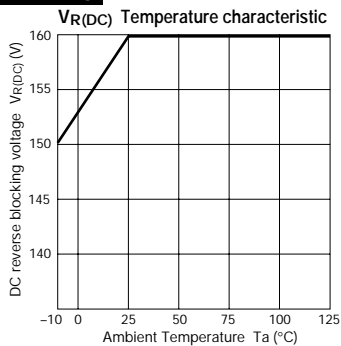
## RZ1055



## RZ1150

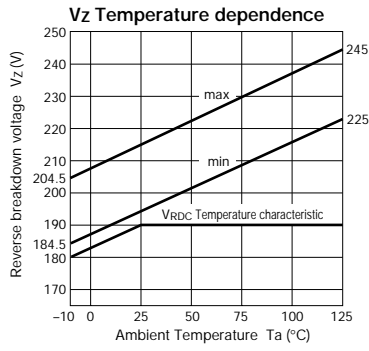
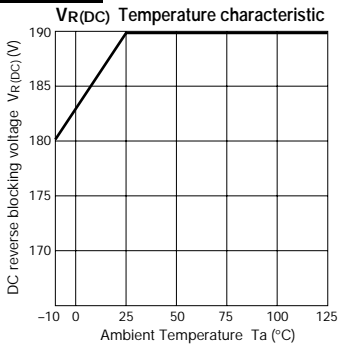


## RZ1175

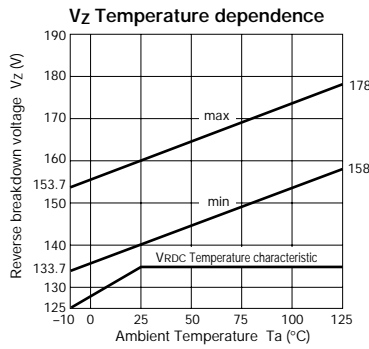
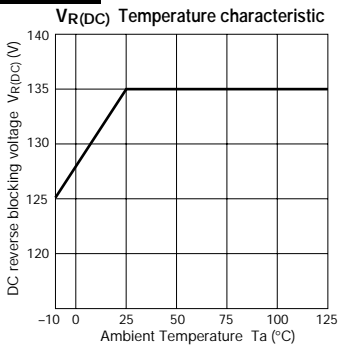


# Avalanche Diodes with built-in Thyristor

## RZ1200

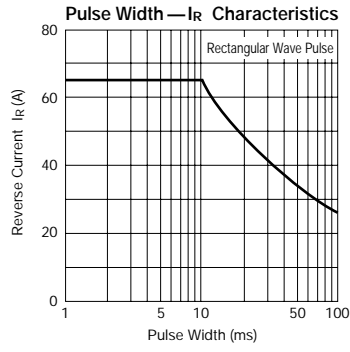
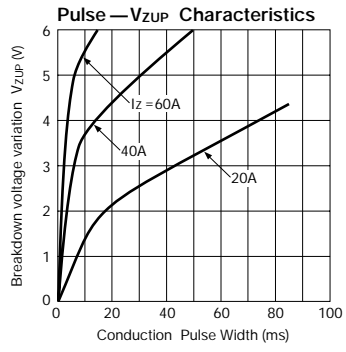


## EZ0150



# Power Zener Diodes

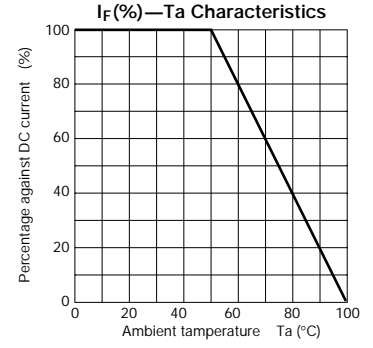
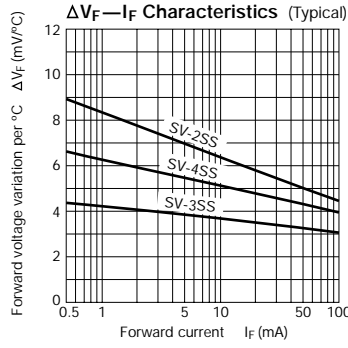
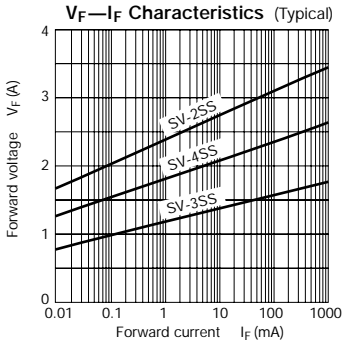
**PZ 628**



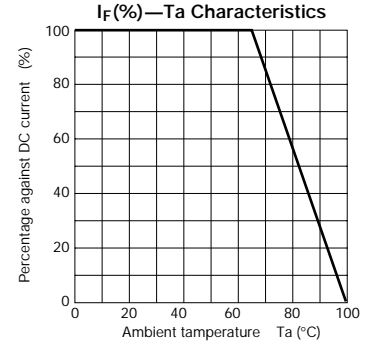
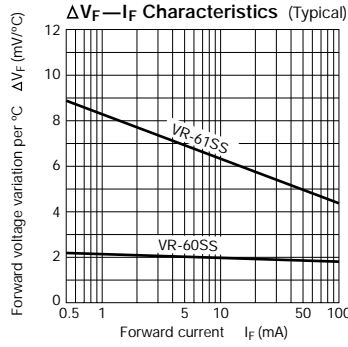
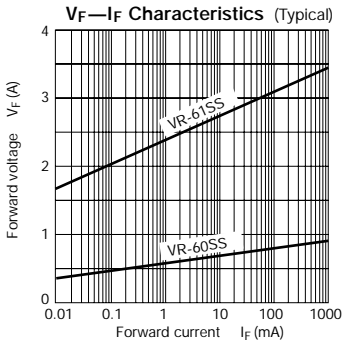


# Characteristic Curves Silicon Varistors

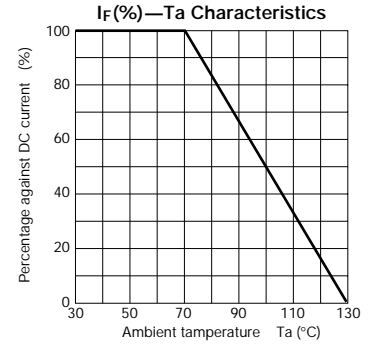
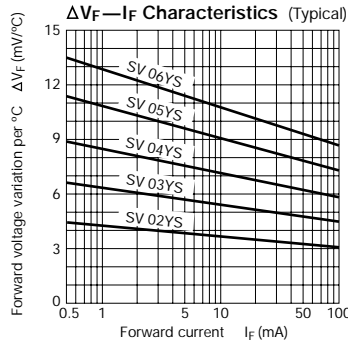
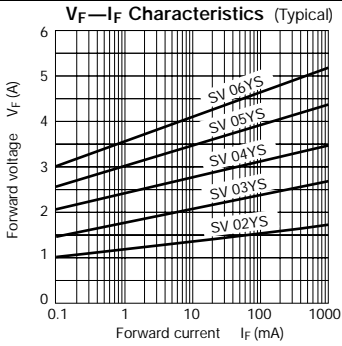
## SV-2SS, 3SS, 4SS



## VR-60SS, 61SS



## SV 02YS, 03YS, 04YS, 05YS, 06YS

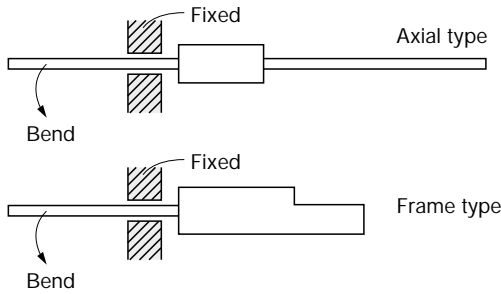


# Application Notes

## ● Ordinary Diodes

### ① Lead forming

When forming leads, hold the lead wire on the main body's side so as to prevent stress from being applied to the main body.



### ② Mounting

To mount a frame-type diode on a heatsink, use its screw hole. Do not fix its resin body as the silicon chip may get broken.

### ③ Temperature measurement

For an axial type diode, measure the temperature of the lead wire on the main body side. The thermocouple to be used must be as thin as possible (approximately  $\phi 0.125$ ).

### ④ Temperature rise

A diode's temperature increases due to losses from forward current, reverse current and reverse recovery time.

In normal use, losses are mainly attributable to forward current and voltage. However, in high frequency circuits such as switching power supplies, losses due to reverse recovery time also occurs. Moreover, in diodes having large reverse currents like Schottky barrier diodes losses due to reverse current cannot be disregarded.

Forward loss tends to decrease at high temperatures. However, reverse loss tends to increase at high temperatures. Therefore, it is necessary to consider the ambient temperature when verifying operation.

### ⑤ Inrush current

In a capacitor-input type rectifier circuit, inrush current flows when the power supply is switched on. The peak value of this inrush current shall be set less than peak forward surge current  $I_{FSM}$  ( $I^2 t$  can also be obtained but set the minimum pulse width to 1 msec). The value of  $I_{FSM}$  is guaranteed for a single shot only. If the inrush current is repeated within a short period of time, the derating has to be taken into account.

### ⑥ Peak value current

Limit of the peak value current must be set to 10 times of the average current ( $I_o$  or  $I_{F(AV)}$ ) under normal use. If the peak value increases, the diode's forward loss also increases. In this case, check the temperature rise.

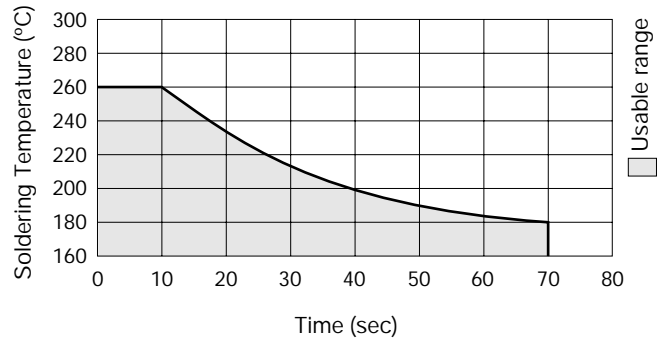
- Carefully study the mounting method when the usage environment is prone to creeping discharge.

## ● Surface Mount Diodes

(SFP□ - 5□ / 6□)

### Soldering (flow, reflow)

- Use rosin based flux. Never use acidic fluxes.
- To prevent the build-up of large thermal stress, preheat within 1 to 2 minutes at 150°C and solder within the usable range shown below.



- When using a soldering iron, make use of the following references:

Temperature of soldering Iron Tip:

less than 300°C

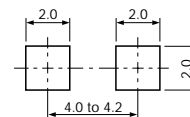
(Power of the soldering iron: 30W or less)

The soldering tip must be as thin as possible.

Soldering time: less than 10 seconds

### REFERENCE: Copper foil land for mounting SFP series diodes.

(Unit: mm)



Contact us if there is any unclear point.

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