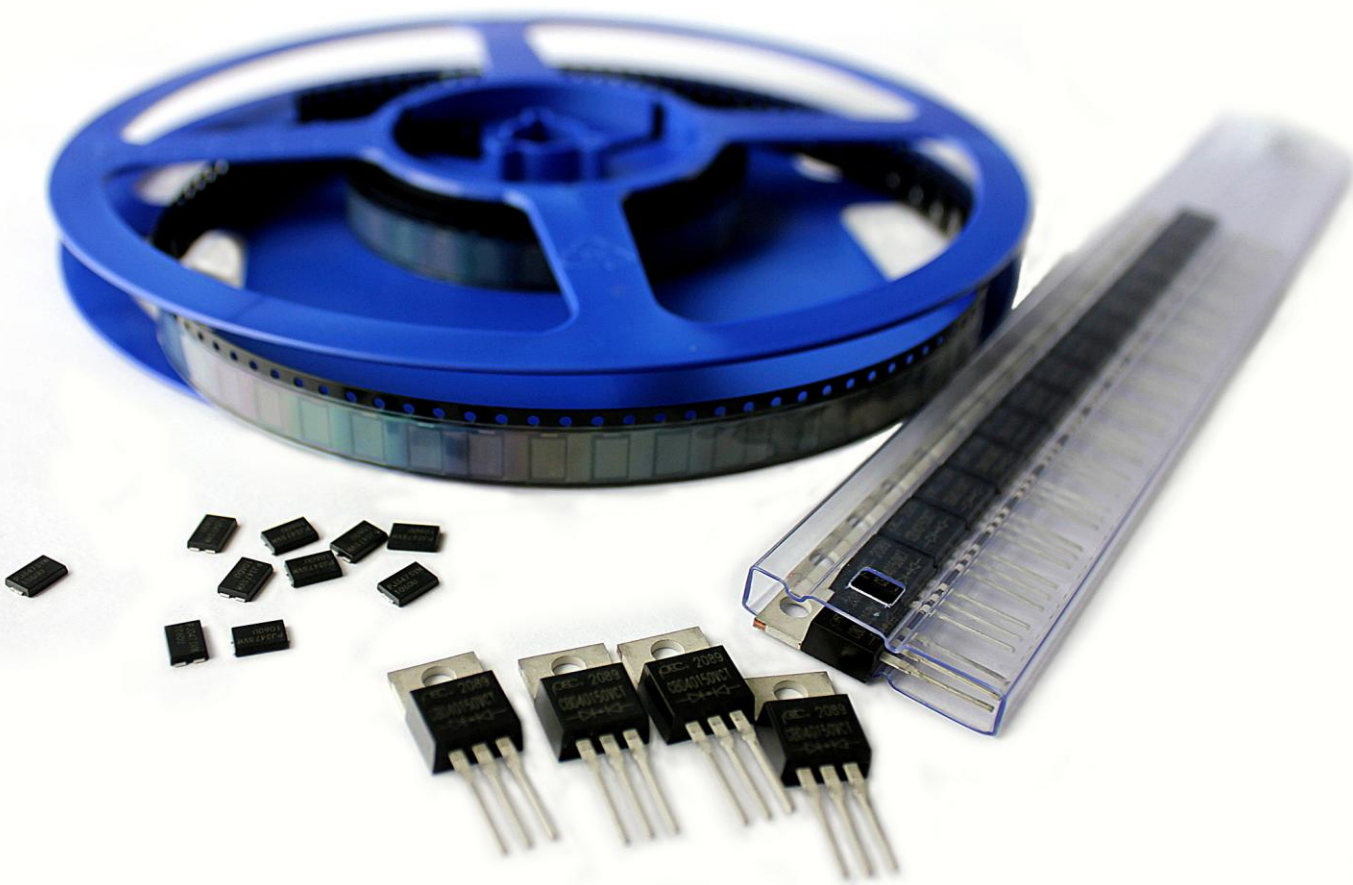


The
SUPER SCHOTTKY
Family



Your Component, Our Profession

Every Milliwatt Matters

Panjit's **Super Schottky Family** is a new type Schottky that provides designers better choice than Standard Schottky.

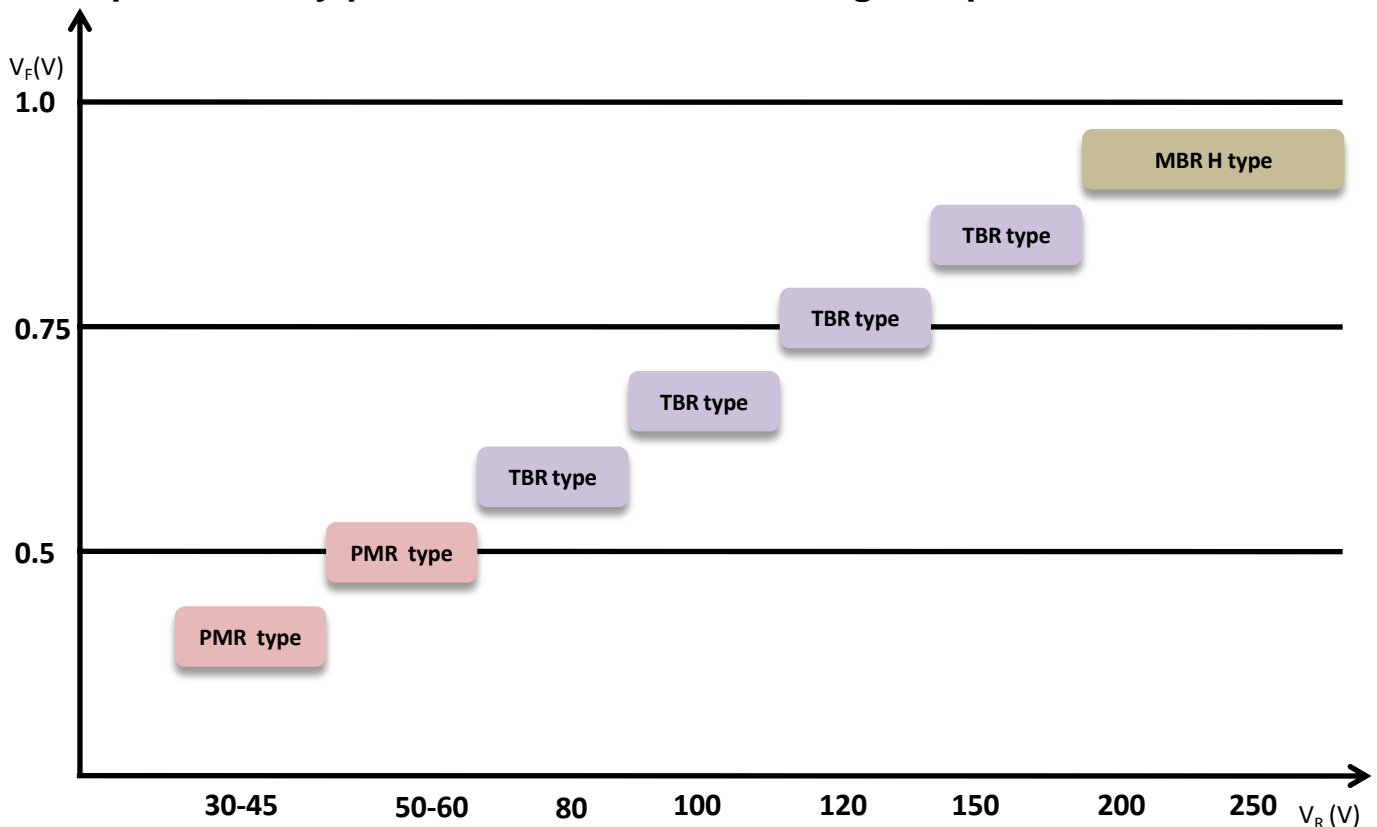
The Super Schottky Family is divided into 3 categories:

- ◆ Planar MOS Schottky (a.k.a. PMR type)
- ◆ Trench MOS Schottky (a.k.a. TBR type)
- ◆ Planar Schottky (a.k.a. MBR H type)

With the implantation of an upgraded technology, this new family has an *extremely low forward voltage drop, lower reverse current, lower power dissipation* at high current and *small footprint package* for high current devices.

In addition, by applying this new Schottky family, the end-products are more able to company with the Energy Star specification accordingly.

- ◆ Super Schottky provides lower forward voltage drop



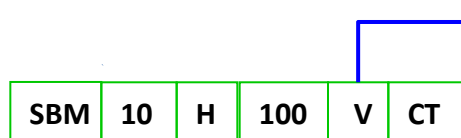
With multiple choices of package, Panjit's Super Schottky Family is suitable to apply on applications where big size package is needed or space-constrained is required.

◆ Product tree for devices with single die

I_F	V_R (V)	SMAF 	SMBF 	TO-277(B) 	DO-201AD
5A	45/50	●	●		●
	60	●	●		●
	80/100	●	●		●
	120		●*		●*
	150		●*		●*
	200/250			●*	●*
8A	45/50		●	●	●
	60		●	●	●
10A	45/50			●	●
	60			●	●
	80/100			●	●
	120			●	●*
	150			●*	
	200/250			●*	
15A	45/50			●	●
	60			●	●
	80/100			●*	●
20A	45/50			●*	
	60			●*	
	80/100			●*	





*Product in planning, please contact us if in interest.

◆ Super Schottky Nomenclature



Type	45-50V	60V	80-100V	120V	150V	200V
L	0.45-0.49	0.51-0.55	0.71-0.75	0.76-0.80	0.81-0.85	0.86-0.90
V	0.39-0.44	0.46-0.50	0.66-0.70	0.71-0.75	0.76-0.80	0.81-0.85
U	0.34-0.38	0.41-0.45	0.60-0.65	0.66-0.70	0.71-0.75	0.76-0.80
X	<0.34	<0.41	<0.60	<0.66	<0.71	<0.76

◆ Product tree for devices with dual die

I_F	V_R (V)	TO-252 	D ² PAK 	TO-220AB 	ITO-220AB 
10A	45	●	●	●	●
	60	●	●	●	●
	100	●	●	●	●
	120	●*	●	●	●
	150	●*	●	●	●
	200	●*	●	●	●
	250	●*	●	●	●
20A	45		●	●	●
	60		●	●	●
	100		●	●	●
	120		●	●	●
	150		●	●	●
	200		●	●	●
	250		●	●	●
30A	45		●	●	●*
	60		●	●	●
	100		●	●	●
	120		●	●	●*
	150		●*	●*	●*
	200		●	●	●
	250		●	●	●
40A	45		●*	●*	
	60		●*	●*	
	100		●	●	

*Product in planning, please contact us if in interest.

Planar MOS Schottky

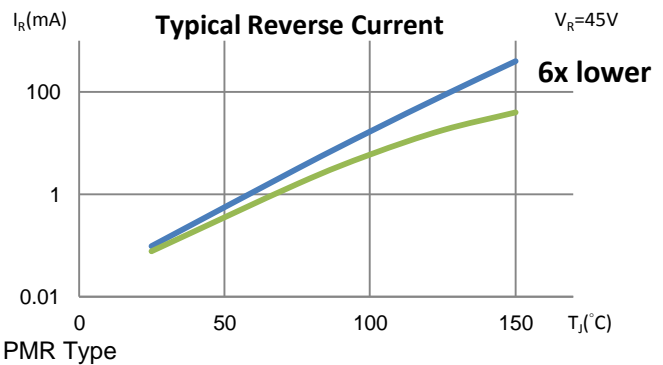
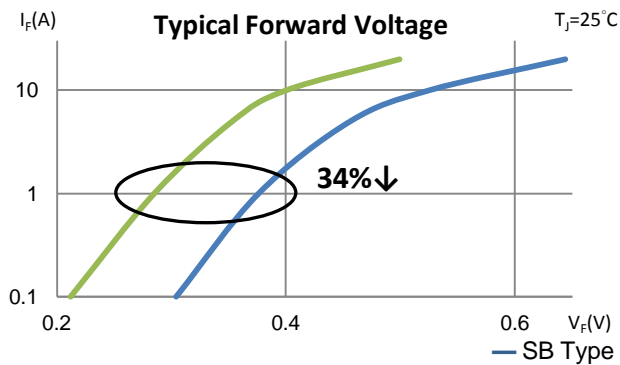
Applications

- ✦ Junction Box for Solar Panels
- ✦ Chargers
- ✦ PCs Power Supply

Features

- ✦ Low leakage current at high temperature
- ✦ Ultra low voltage drop
- ✦ High frequency switching

Characteristic Comparison



Application	Part Number	V_R (V)	I_F (A)	I_R max. @ V_R (uA)	V_F typ. @ I_F (V)	T_J max. ($^\circ\text{C}$)	Package
5W-12W Charger	SRM545AV	45	5	210	0.43	150	SMB
	SVM1550V(B)	50	15	320	0.45	150	TO-277(B)
LED Lighting Power Adapter TV Power	SDM1045CS	45	10	210	0.49	150	TO-252
	SDM1050LCS	50	10	210	0.52	150	TO-252
	SBM1045VCT	45	10	250	0.40	150	TO-220AB
	SBM1045VFCT	45	10	250	0.40	150	ITO-220AB
	SDM1645CS	45	16	210	0.49	150	TO-252
	SDM1650LCS	50	16	210	0.52	150	TO-252
	SBM2045VCT	45	20	320	0.41	150	TO-220AB
	SBM2045VFCT	45	20	320	0.41	150	ITO-220AB
	SBM3045VCT	45	30	320	0.44	150	TO-220AB
	SBM3045VDC	45	30	320	0.44	150	D ² PAK
DC-DC Converter	SSM3060VHE	60	3	220	0.46	150	SOD-123HE
LED Lighting Power 5W-12W Charger	SRM560VF	60	5	220	0.47	150	SMBF
	SRM860VF	60	8	220	0.49	150	SMBF
	SVM860V(B)	60	8	220	0.50	150	TO-277(B)
PC Power LED Lighting Power	SDM1060LCS	60	10	210	0.53	150	TO-252
	SBM1060VCT	60	10	220	0.46	150	TO-220AB
	SBM1060VFCT	60	10	220	0.46	150	ITO-220AB
	SDM1260VCS	60	12	210	0.50	150	TO-252
	SBM2060VCT	60	20	220	0.51	150	TO-220AB
	SBM2060VFCT	60	20	220	0.51	150	ITO-220AB
	SBM3060VCT	60	30	220	0.55	150	TO-220AB
SBM3060VFCT	60	30	220	0.55	150	ITO-220AB	

Trench MOS Schottky

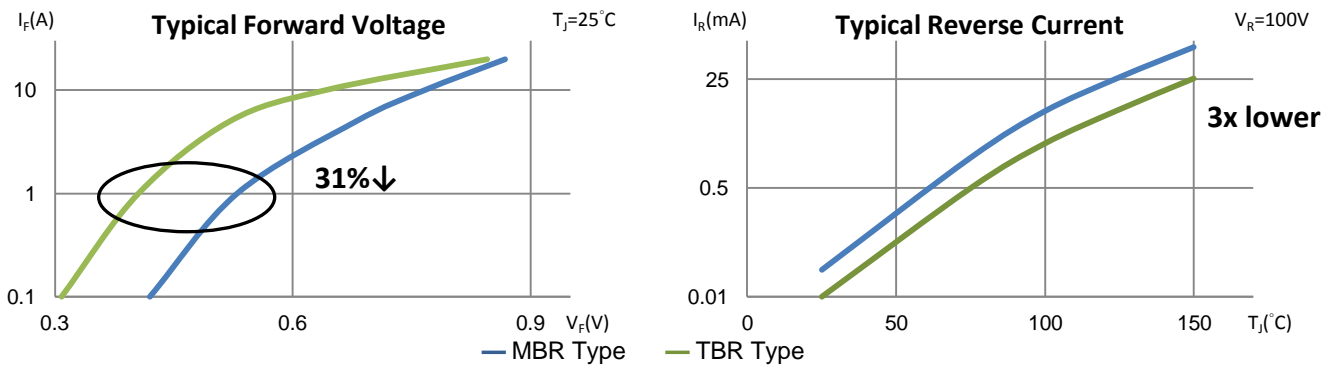
Applications

- ⊕ DC-DC Rectifier
- ⊕ PCs Power Supply
- ⊕ TV Power Supply

Features

- ⊕ Ultra low voltage drop
- ⊕ Very low leakage current
- ⊕ High frequency switching

Characteristic Comparison



Application	Part Number	V_R (V)	I_F (A)	I_R max. @ V_R (uA)	V_F typ. @ I_F (V)	T_j max. ($^\circ\text{C}$)	Package
Solar Bypass Diode	SBT1545LSS	45	15	310	0.42	150	DO-201AD
	SBT1560VS	60	15	50	0.48	150	P-600
DC-DC Converter 5W-12W Charger	SXT580XF*	80	5	40	0.53	150	SMAF
	SRT880XF	80	8	60	0.55	150	SMBF
	SVT1080V(B)*	80	10	50	0.59	150	TO-277(B)
	SBT1080VSS*	80	10	50	0.59	150	DO-201AD
	SBT5100VSS	100	5	50	0.61	150	DO-201AD
	SRT5100UF	100	5	50	0.61	150	SMBF
10W Quick Charger TV Power	SVT1580V(B)*	80	15	60	0.60	150	TO-277(B)
	SBT1580VSS*	80	15	60	0.60	150	DO-201AD
	SVT2080V(B)*	80	20	80	0.57	150	TO-277(B)
	SVT10100V(B)*	100	10	80	0.68	150	TO-277(B)
	SVT12100V(B)	100	12	100	0.61	150	TO-277(B)
	SBT15100VSS	100	15	50	0.70	150	DO-201AD
LED Lighting Power NB Adapter TV Power	SBT10100VDC	100	10	60	0.68	150	D ² PAK
	SBT10100VFCT	100	10	60	0.68	150	ITO-220AB
	SBT20100VCT	100	20	80	0.66	150	TO-220AB
	SBT20100VFCT	100	20	80	0.66	150	ITO-220AB
	SBT30100VCT	100	30	100	0.67	150	TO-220AB
	SBT30100VFCT	100	30	100	0.67	150	ITO-220AB
	SBT40100VFCT	100	40	120	0.71	150	ITO-220AB
	SBT10150LCT	150	10	40	0.81	150	TO-220AB
	SBT10150LFCT	150	10	40	0.81	150	ITO-220AB
	SBT20150LCT	150	20	40	0.80	150	TO-220AB
SBT20150LFCT	150	20	40	0.80	150	ITO-220AB	

*Product in planning, please contact us if in interest.

Planar Schottky

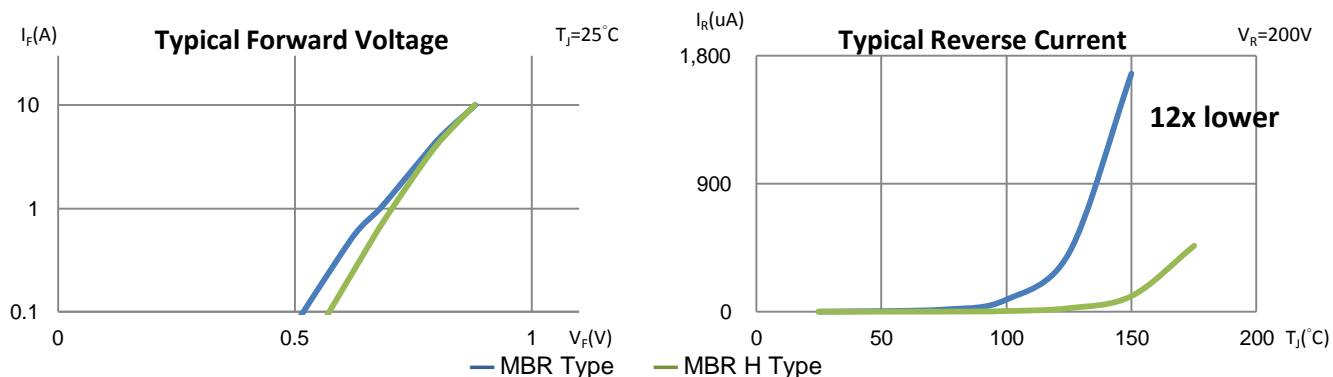
Applications

- ⊕ TV Power Supply
- ⊕ LED Lighting Power

Features

- ⊕ High temperature at 175 °C
- ⊕ Ultra low leakage current
- ⊕ High frequency switching

Characteristic Comparison



Application	Part Number	V _R (V)	I _F (A)	I _R max. @V _R (uA)	V _F max. @I _F (V)	T _J max. (°C)	Package	
LED Lighting Power Adapter TV power	SX3H20	200	3	0.50	0.90	175	SMA	
	MBR5H200	200	5	0.50	0.90	175	DO-201AD	
	MBR10H200CT	200	10	0.50	0.90	175	TO-220AB	
	BD10H200CS	200	10	0.50	0.90	175	TO-252	
	MBR10H200DC	200	10	0.50	0.90	175	D ² PAK	
	MBR10H200FCT	200	10	0.50	0.90	175	ITO-220AB	
	MBR10H200	200	10	0.50	0.90	175	DO-201AD	
	MBR20H200CT	200	20	0.55	0.90	175	TO-220AB	
	MBR20H200DC	200	20	0.55	0.90	175	D ² PAK	
	MBR20H200FCT	200	20	0.55	0.90	175	ITO-220AB	
	MBR30H200CT	200	30	0.60	0.90	175	TO-220AB	
	MBR30H200DC	200	30	0.60	0.90	175	D ² PAK	
	MBR30H200FCT	200	30	0.60	0.90	175	ITO-220AB	
	SX3H25	250	3	0.50	0.90	0.90	175	SMA
	MBR5H250	250	5	0.50	0.90	0.90	175	DO-201AD
	MBR10H250CT	250	10	0.50	0.90	0.90	175	TO-220AB
	BD10H250CS	250	10	0.50	0.90	0.90	175	TO-252
	MBR10H250DC	250	10	0.50	0.90	0.90	175	D ² PAK
	MBR10H250FCT	250	10	0.50	0.90	0.90	175	ITO-220AB
	MBR10H250	250	10	0.50	0.90	0.90	175	DO-201AD
	MBR20H250CT	250	20	0.55	0.90	0.90	175	TO-220AB
	MBR20H250DC	250	20	0.55	0.90	0.90	175	D ² PAK
	MBR20H250FCT	250	20	0.55	0.90	0.90	175	ITO-220AB
	MBR30H250CT	250	30	0.60	0.90	0.90	175	TO-220AB
MBR30H250DC	250	30	0.60	0.90	0.90	175	D ² PAK	
MBR30H250FCT	250	30	0.60	0.90	0.90	175	ITO-220AB	

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