

M1A THRU M7A

Surface Mount Glass Passivated Rectifiers

Features

- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical Data

- Case: JEDEC A-SMA molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any
- Note: Products with logo

are made by HY Electronic (Cayman) Limited.

Applications

• For use in low voltage, high frequency inverters, polarity protection applications

Maximum Ratings and Electrical Characteristics

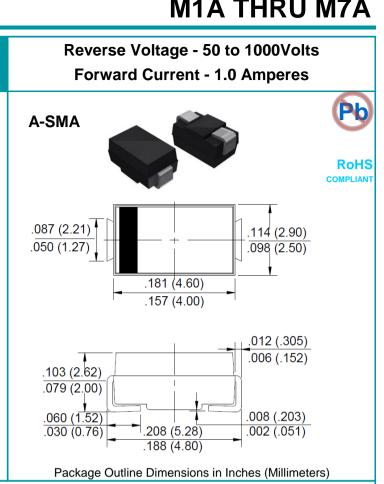
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Symbol	M1A	M2A	МЗА	M4A	M5A	M6A	M7A	Unit
Vrrm	50	100	200	400	600	800	1000	V
Vrms	35	70	140	280	420	560	700	V
Vdc	50	100	200	400	600	800	1000	V
l(AV)	1.0							А
IFSM	30							A
l ² t	3.7							A ² s
VF	1.1							V
In				5.0				uA
IK	100							uA
Сл	10						pF	
Rejc	30						°C/W	
TJ	-55 to+150							°C
Тѕтс	-55 to+150							°C
	VRRM VRMS VDC I(AV) IFSM I²t VF IR CJ R0JC TJ	VRRM 50 VRMS 35 VDC 50 I(AV) - IFSM - IFSM - VF - IR - CJ R0JC TJ -	$\begin{tabular}{ c c c c } \hline VRM & 50 & 100 \\ \hline VRM & 35 & 70 \\ \hline VDC & 50 & 100 \\ \hline I(AV) & & & \\ \hline I(AV) & & & \\ \hline IFSM & & & \\ \hline IFSM & & & \\ \hline VF & & & \\ \hline VF & & & \\ \hline IR & & & \\ \hline CJ & & & \\ \hline R0JC & & & \\ \hline TJ & & & \\ \hline \end{array}$	VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) 50 100 200 I(AV)	$\begin{tabular}{ c c c c c } \hline V_{RRM} & 50 & 100 & 200 & 400 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 \\ \hline V_{DC} & 50 & 100 & 200 & 400 \\ \hline I(AV) & & & & & & & & & & & & & \\ \hline I(AV) & & & & & & & & & & & & & & & & & & &$	$\begin{tabular}{ c c c c c } \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline I(AV) & & & & & & & & & & & \\ \hline I(AV) & & & & & & & & & & & & & \\ \hline I(AV) & & & & & & & & & & & & & & & \\ \hline IFSM & & & & & & & & & & & & & & & & & \\ \hline IFSM & & & & & & & & & & & & & & & & & & &$	VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 500 100 200 400 600 800 I(AV) 500 100 200 400 600 800 I(AV) 50 100 200 400 600 800 I(AV) 50 100 200 400 600 800 I(AV) 50 100 200 400 600 800 IFSM IFSM 30 30 50 50 50 VF 1.1 5.0 1.1 5.0 50 50 IR IR 100 30 50 50 50 50 ReJC 30 30 55 to+150 55 55 55 55	VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 VDC 50 100 200 400 600 800 1000 I(AV) 100 200 400 600 800 1000 I(AV) 1.0 30 50 100 200 400 600 800 1000 I(AV) 30 50 100 50 100 50 10 50 50 10 50 10 50 10 50 10

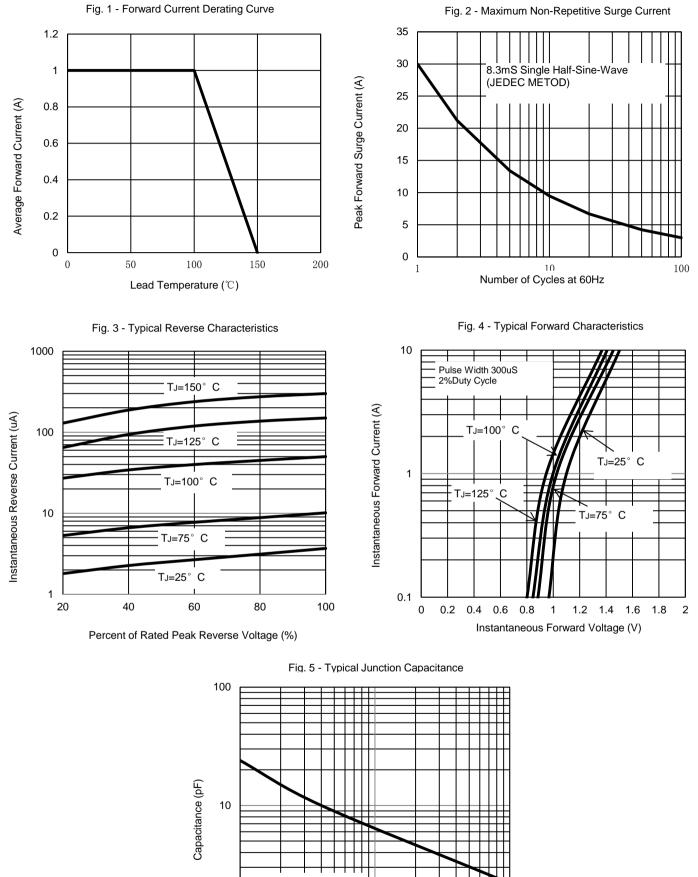
Notes: 1. 300uS pulse width, 2%duty cycle. 300uS

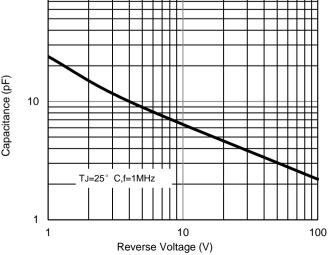
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

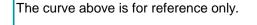
3. The typical data above is for reference only.



Rating and Characteristic Curves M1A THRU M7A







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