





Surface Mount Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000Volts Forward Current - 1.0 Amperes

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

Applications

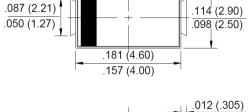
 For use in low voltage, high frequency inverters, polarity protection applications

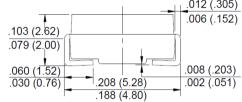












Package Outline Dimensions in Inches (Millimeters)

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%.

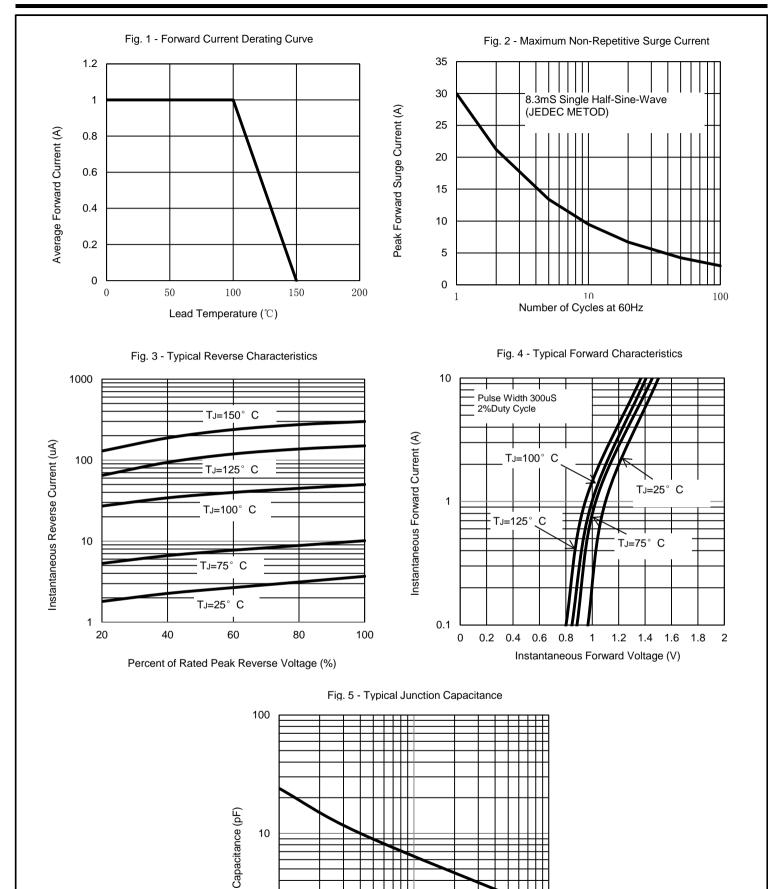
Characteristics	Symbol	M1A	M2A	МЗА	M4A	M5A	M6A	M7A	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T∟=100 ℃	I(AV)	1.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	30							А
I ² t Rating for Fusing (t<8.3mS)	l ² t	3.7							A ² s
Peak Forward Voltage at 1.0A DC (Note1)	VF	1.1							V
Maximum DC Reverse Current @TJ=25℃	1-	5.0 100							uA
at Rated DC Blocking Voltage @Tյ=100℃	l IR								
Typical Junction Capacitance (Note 2)	CJ	10							pF
Typical Thermal Resistance Junction to Case	Rеjc	30							°C/W
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

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.

M*A-13-00/99-00/01 Rev. 10, 1-Nov-2019





The curve above is for reference only.

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100

Reverse Voltage (V)

TJ=25° C,f=1MHz



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