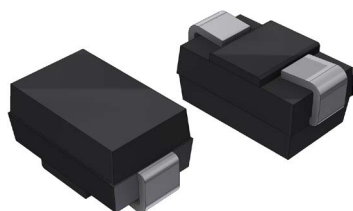


Surface Mount Glass Passivated Rectifiers

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**RoHS
Compliant**

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

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, halfwave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

Characteristics	Symbol	M7	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	
Maximum DC Blocking voltage	V_{DC}	1000	
Maximum Average Forward Rectified Current @ $T_L=100^{\circ}C$	$I_{(AV)}$	1	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30	
I^2t Rating for Fusing ($t<8.3mS$)	I^2t	3.7	A ² s
Peak Forward Voltage at 1.0A DC (Note1)	V_F	1.1	V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_J=100^{\circ}C$	I_R	5	uA
		100	
Typical Junction Capacitance (Note 2)	C_J	10	pF
Typical Thermal Resistance Junction to Case	$R_{\theta JA}$	30	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	

NOTE: 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.

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Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

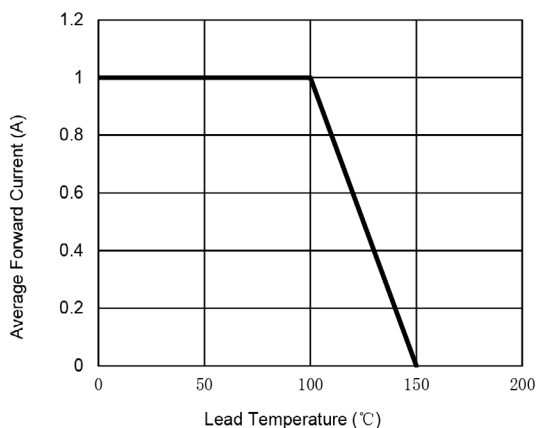


Fig. 2 - Maximum Non-Repetitive Surge Current

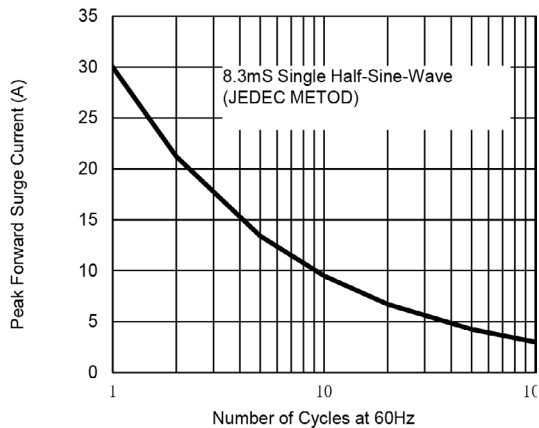


Fig. 3 - Typical Reverse Characteristics

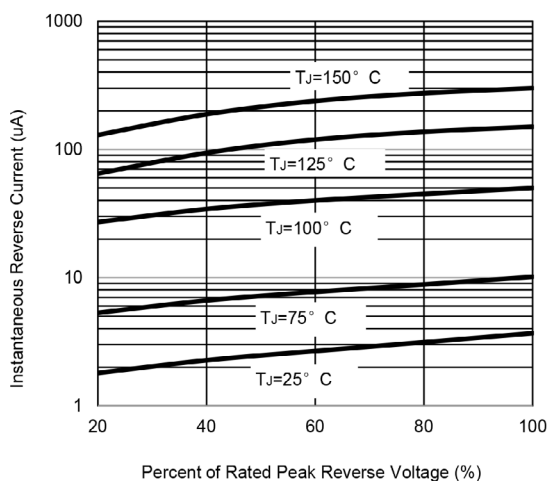


Fig. 4 - Typical Forward Characteristics

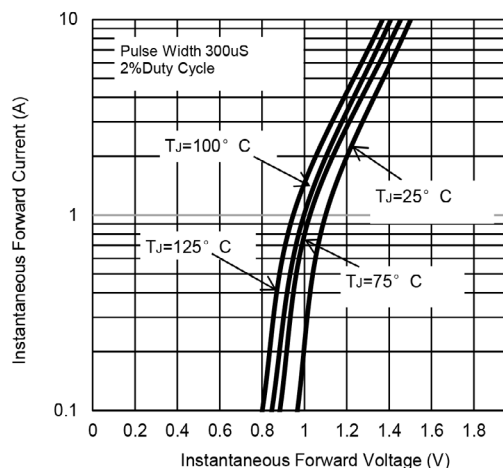
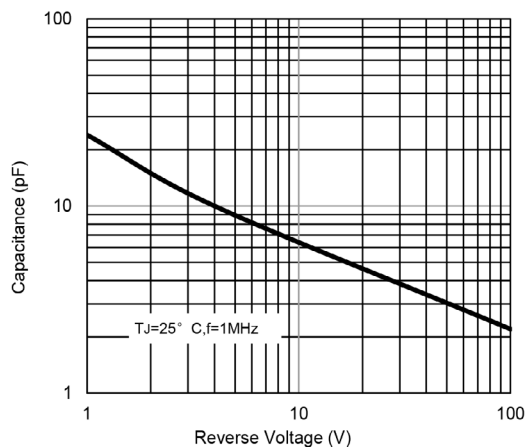


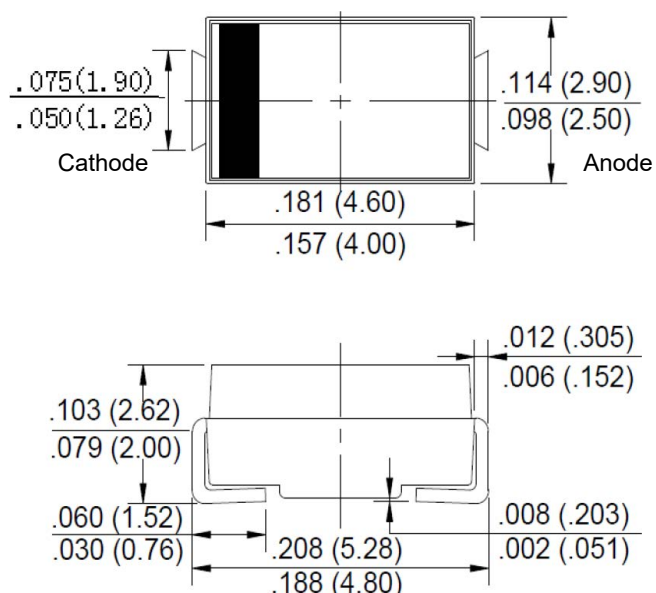
Fig. 5 - Typical Junction Capacitance



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Packaging Dimensions



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Rectifier Diode, 1000V, 1A, A-SMA, Surface Mount	M7

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