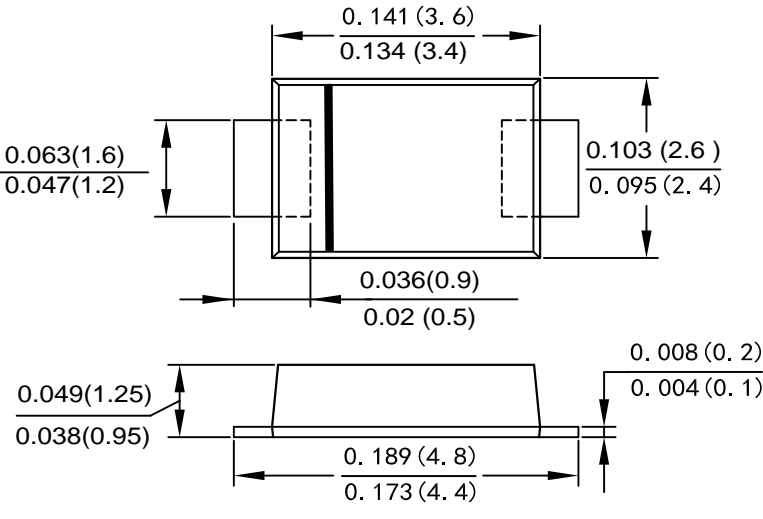


Features	Case: SMAF
Glass Passivated Die Construction Low forward voltage drop High current capability High reliability Metal silicon junction, majority carrier conduction Plastic Case Material has UL Flammability Classification Rating 94V-0	 <p>0.141 (3.6) 0.134 (3.4) 0.063 (1.6) 0.047 (1.2) 0.103 (2.6) 0.095 (2.4) 0.036 (0.9) 0.02 (0.5) 0.049 (1.25) 0.038 (0.95) 0.189 (4.8) 0.173 (4.4) 0.008 (0.2) 0.004 (0.1)</p>
Mechanical Data	
<ul style="list-style-type: none"> <li>Case: Molded plastic SMAF</li> <li>Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed</li> <li>Polarity: Color band denotes cathode end</li> <li>Mounting Position: Any</li> <li>Making: Type Number</li> </ul>	<p>Dimensions in inches and (millimeters)</p>

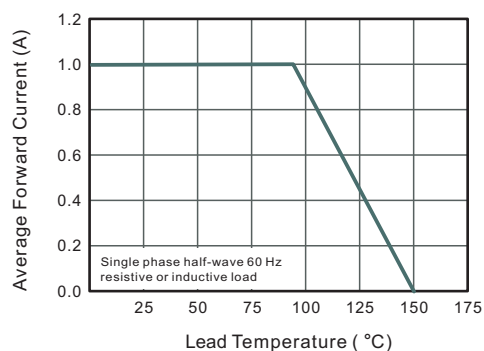
## Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

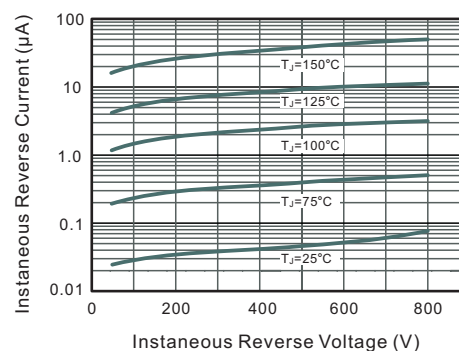
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	M1F	M2F	M3F	M4F	M5F	M6F	M7F	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $T_L=90\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	30							A
Maximum Instantaneous Forward Voltage at 1 A	$V_F$	1.0							V
Maximum DC Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125\text{ }^{\circ}\text{C}$	$I_R$	5 100							$\mu\text{A}$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150							$^{\circ}\text{C}$

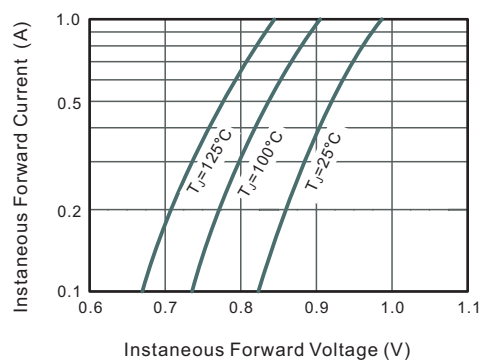
**Fig.1 Forward Current Derating Curve**



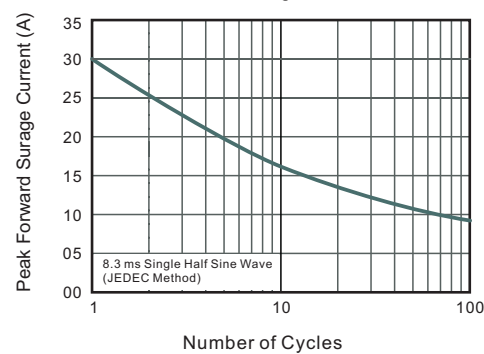
**Fig.2 Typical Instantaneous Reverse Characteristics**



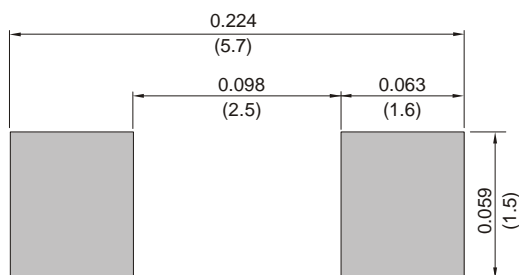
**Fig.3 Typical Forward Characteristic**



**Fig.4 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.5 Mounting PAD Layout**



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