

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	
Mechanical Data <ul style="list-style-type: none"> Case: Molded plastic SMAF Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed Polarity: Color band dentes cathode end Mounting Position: Any Making: Type Number 	<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	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	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 TL=90 °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 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R				5	100			μA
Operating and Storage Temperature Range	T _j , T _{stg}					-55 ~ +150			°C

Fig.1 Forward Current Derating Curve

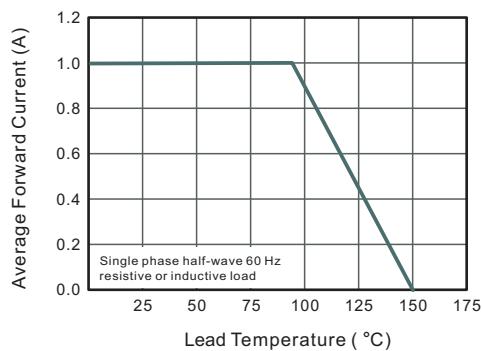


Fig.2 Typical Instantaneous Reverse Characteristics

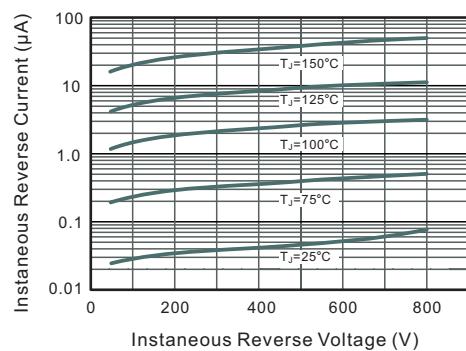


Fig.3 Typical Forward Characteristic

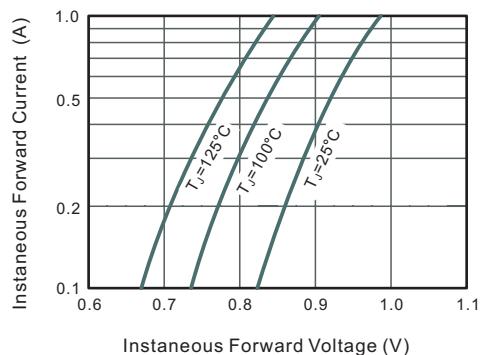


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

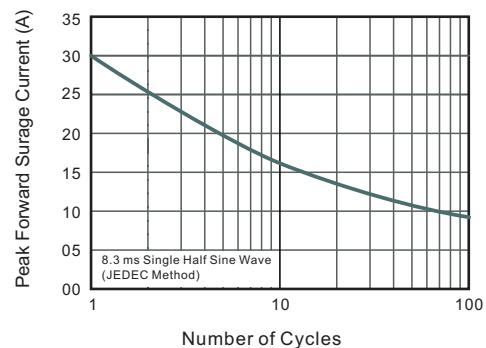
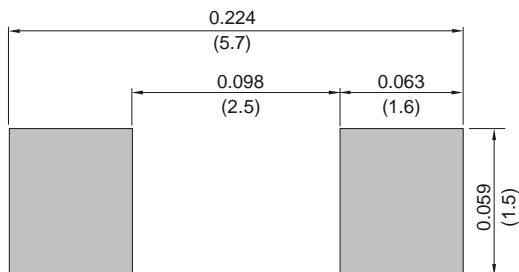


Fig.5 Mounting PAD Layout



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