

Features	Case: SMB (DO-214AA)
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 Case: Molded plastic SMB Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed Polarity: as marked on case Mounting Position: Any Making: Type Number	

Dimensions in inches and (millimeters)

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	S3M	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current @T _L = 100 °C	I _{F(AV)}	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	100	A
Maximum Instantaneous Forward Voltage at 3 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

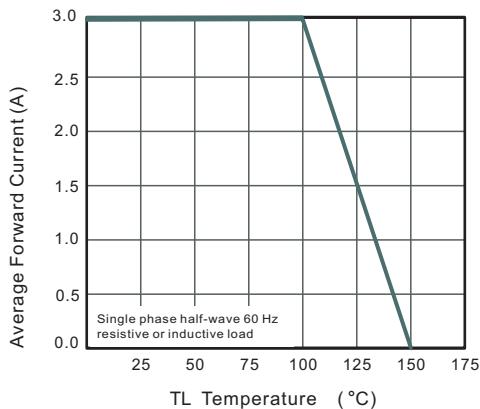


Fig.2 Typical Reverse Characteristics

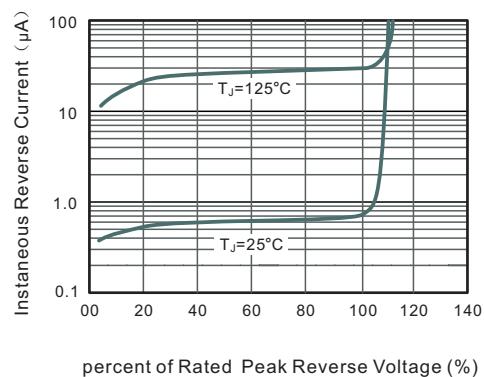


Fig.3 Typical Forward Characteristic

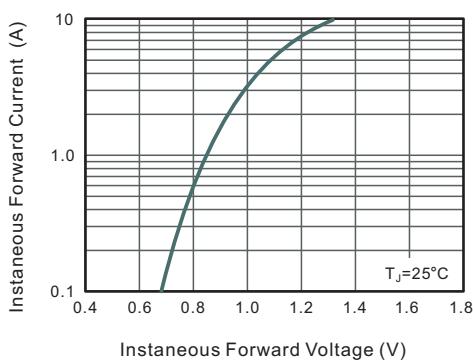


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

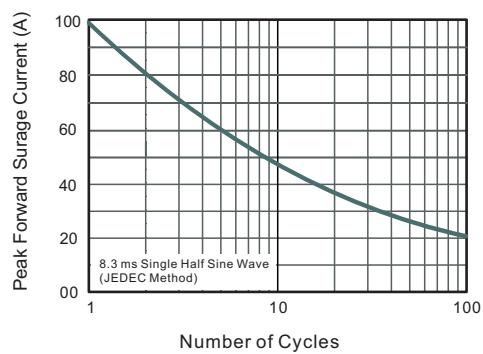


Fig.5 Mounting PAD Layout

