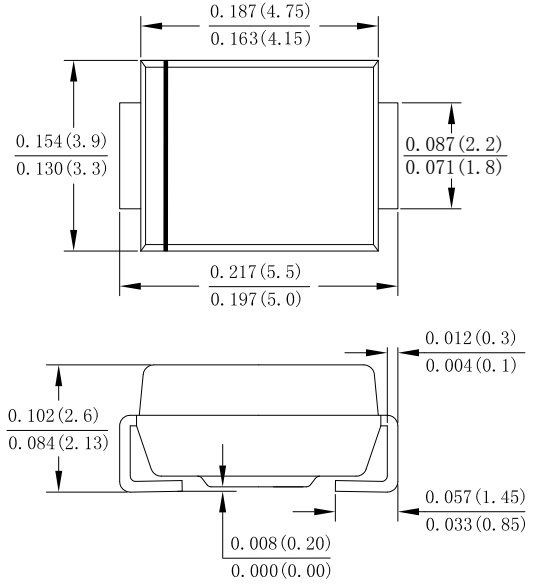


Features	Case: SMB (DO-214AA)
Glass Passivated Die Construction Low forward voltage drop High current capability High reliability Metal silicon junction, majority carrier conduction Plastic Case Material has UL Flammability Classification Rating 94V-0	 <p>Dimensions in inches and (millimeters)</p>
Mechanical Data	
Case: Molded plastic SMB Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed Polarity: as marked on case Mounting Position: Any Marking: Type Number	

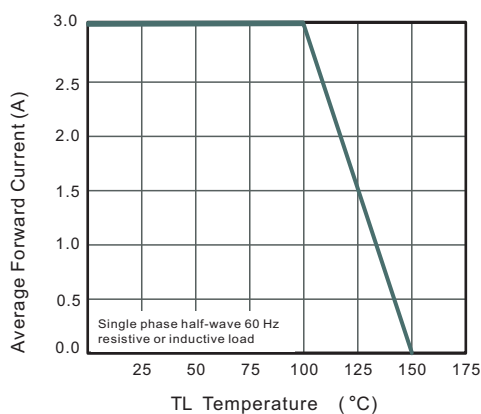
### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

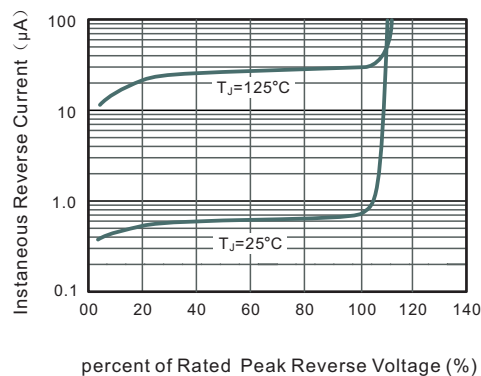
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

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 @ $T_L = 100^\circ C$	$I_{F(AV)}$	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 $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 125^\circ C$	$I_R$	5 100	$\mu A$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	$^\circ C$

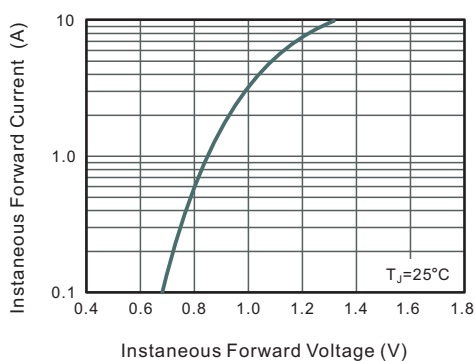
**Fig.1 Forward Current Derating Curve**



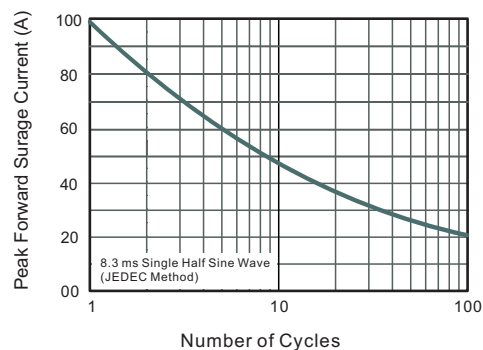
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Forward Characteristic**



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



**Fig.5 Mounting PAD Layout**

