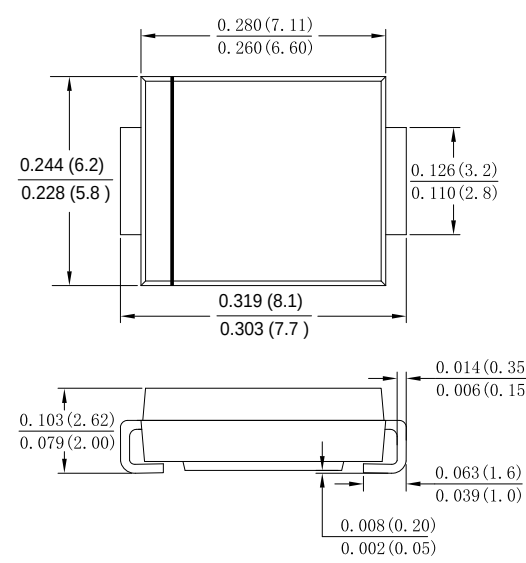


Features	Case: SMC(DO-214AB)
Glass Passivated Die Construction Low forward voltage drop High current capability High reliability Metal silicon junction,majority carrier conduction Plastic Case Material has UL Flammability Classification Rating 94V-0	 Dimensions in inches and (millimeters)
Mechanical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

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified
 Single phase,half wave,60Hz,resistive or inductive load
 For capacitive load derate current by 20%

Type Number	Symbols	S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	Units
Maximum Recurrent 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
Average Rectified Output Current @T _L =110 °C	IF(AV)	5.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed On Rated Load (JEDEC Method) @T _j =25 °C	IFSM	175							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	127.1							A ² S
Forward Voltage @IF=5.0A	V _F	1.0							V
Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =125°C	I _R	5.0							uA
		100							
Typical Junction Capacitance (Note 1)	C _J	45							pF
Typical Thermal Resistance	R _{θJL} R _{θJC} R _{θJA}	9 13 77							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Note:
 1.Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

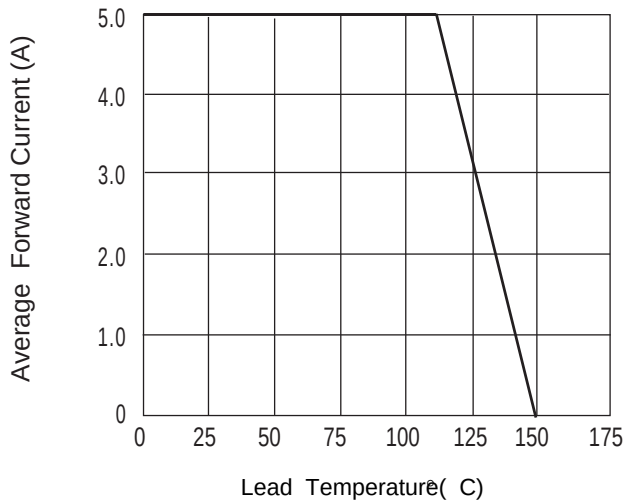


Fig. 2 Typ. Forward Characteristics

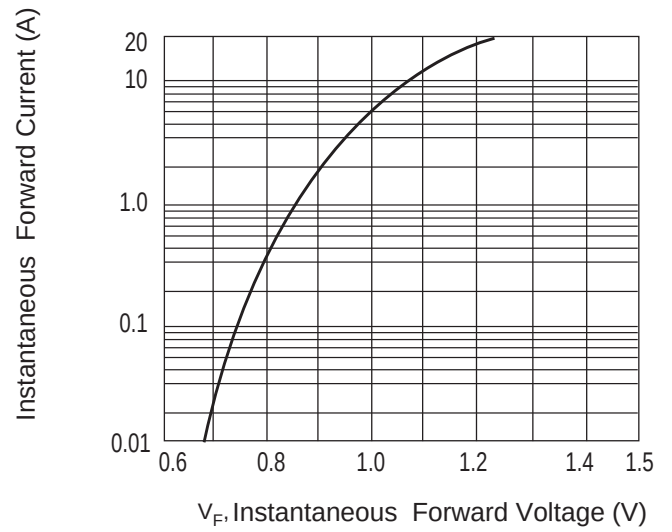


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

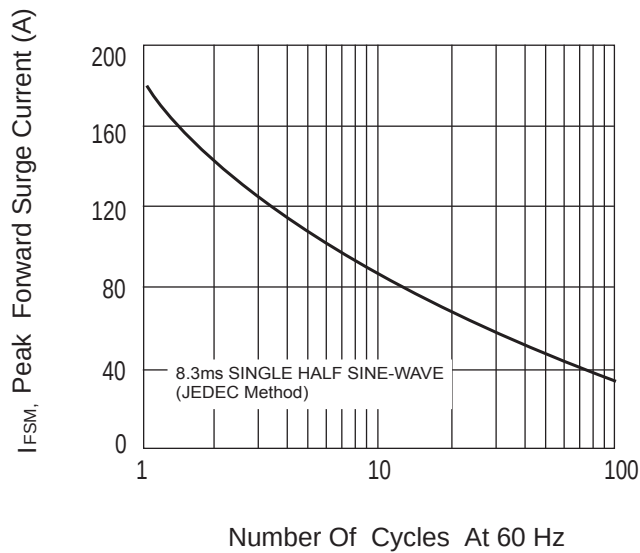


Fig.4 Typical Reverse Characteristics

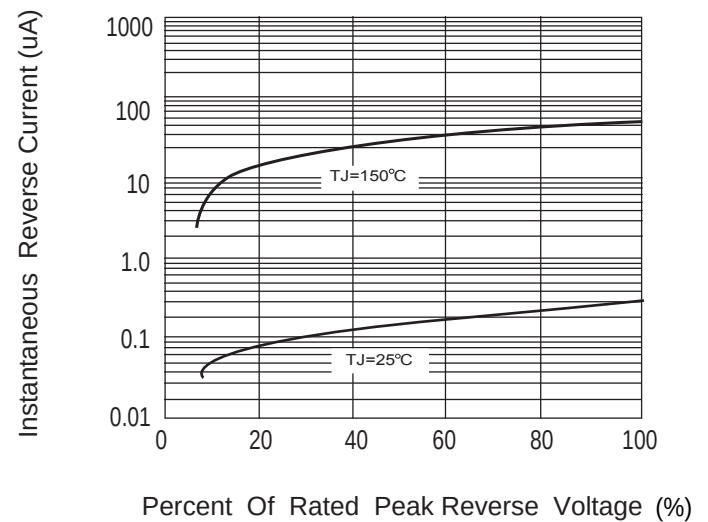


Fig.5 Typical Junction Capacitance

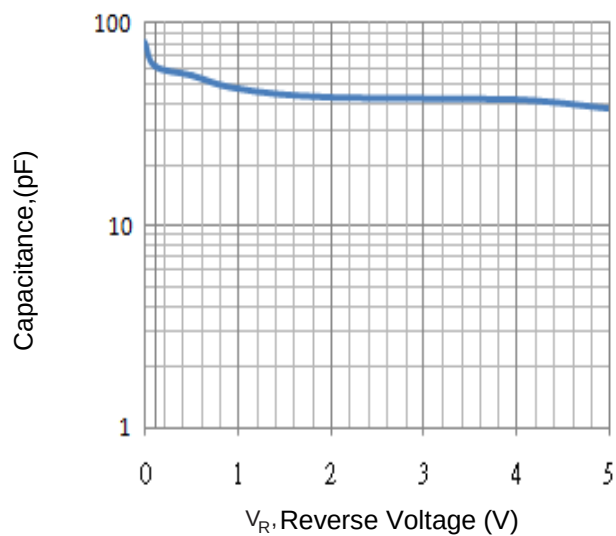


Fig.6 Mounting PAD Layout

