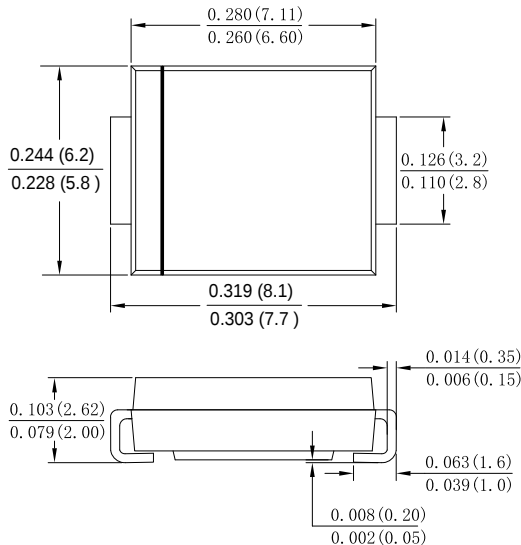


Features	Case: SMC(DO-214AB)
· Glass Passivated Die Construction · Low forward voltage drop · High current capability · High reliability · Metal silicon junction,majority carrier conduction · Plastic Case Material has UL Flammability Classication Rating 94V-0	 Dimensions in inches and (millimeters)
Mechanical 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	S3AC	S3BC	S3DC	S3GC	S3JC	S3KC	S3MC	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℃	IF(AV)	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	110							A
Forward Voltage @IF=3.0A	V _F	1.0							V
Peak Reverse Current @T _A =25℃	I _R	5.0							uA
At Rated DC Blocking Voltage @T _A =125℃		100							
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							℃

Fig. 1 Forward Current Derating Curve

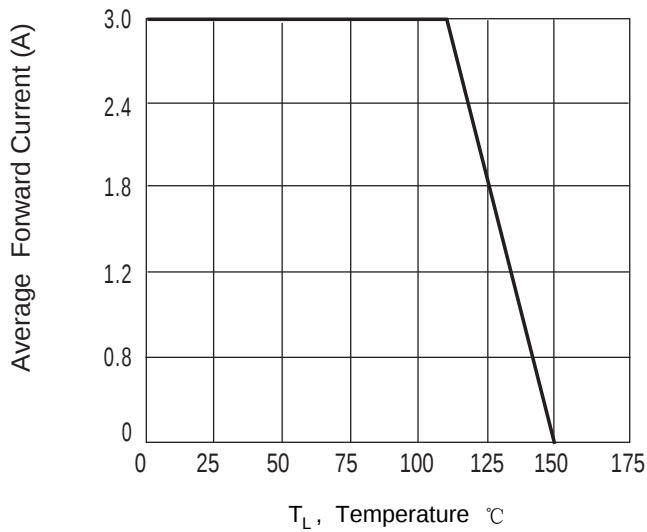


Fig. 2 Typ. Forward Characteristics

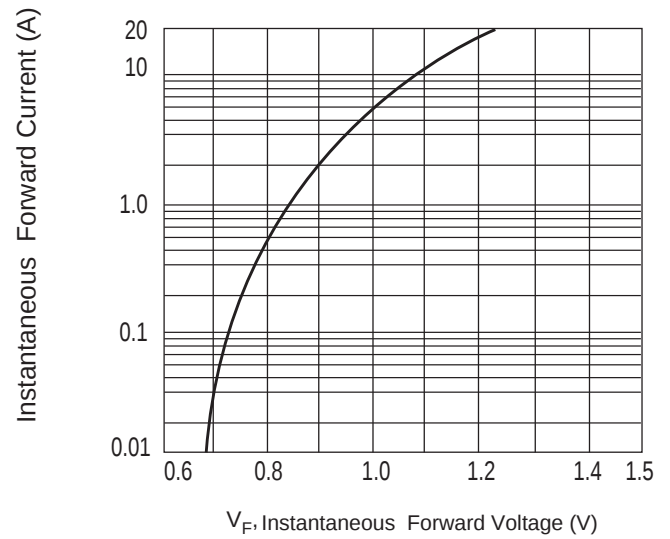


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

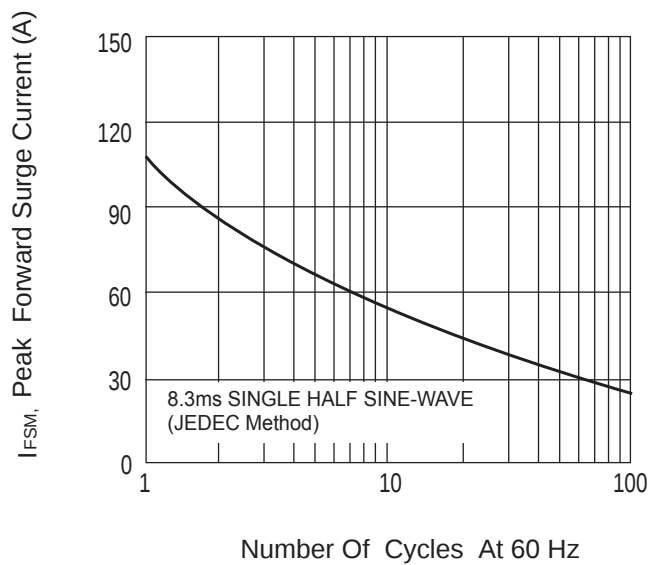


Fig.4 Typical Reverse Characteristics

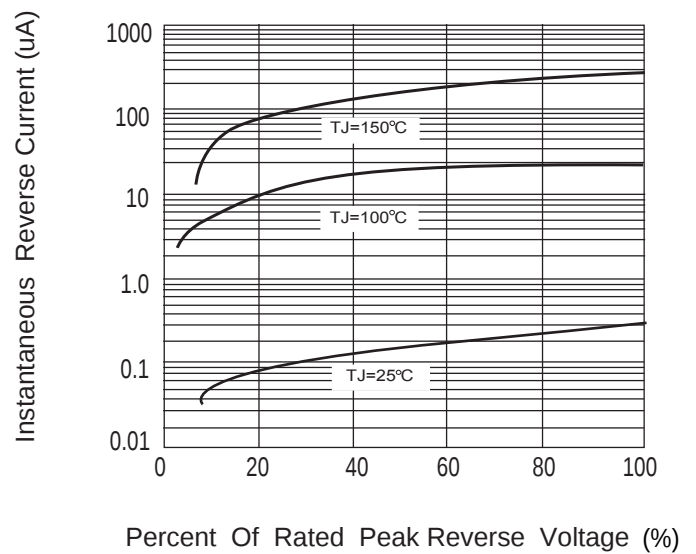


Fig.5 Mounting PAD Layout

