



Features

- · 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

Mechanical Data

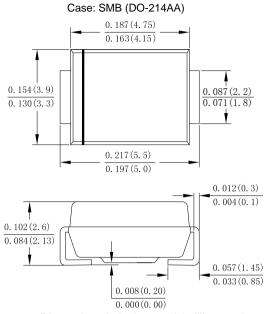
· Case: Molded plastic SMB

 Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: Any

Making: Type Number



Dimensions in inches and (millimeters)

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	SYMBOL	S5A	S5B	S5D	S5G	S5J	S5K	S5M	Unit
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	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =110°C	İ F(AV)	5.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	175							А
Forward Voltage @IF=5.0A	V _{FM}	1.0							V
Peak Reverse Current @T _A =25 °C		5.0 100							uA
At Rated DC Blocking Voltage @T _A =125°C	l _R								
1 ² t Rating for fusing (t <8.3ms)	I ² t	127.1							A ² s
Typical Reverse Recovery Time (Note 1)	Trr	3500							ns
Typical Junction Capacitance (Note 2)	СJ	45							pF
Typical Thermal Resistance Junction to Ambient	R0 JA	95							°C/W
Operating Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$ C

Note:

- 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

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Average Forward Current (A)

Fig. 1 Forward Current Derating Curve

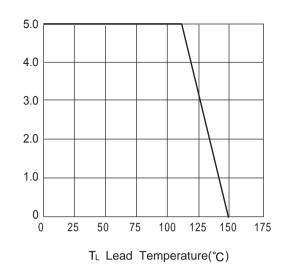
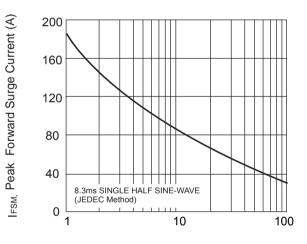


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



Number Of Cycles At 60 Hz

Fig.5 Typical Junction Capacitance

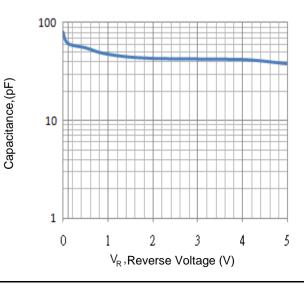


Fig. 2 Typ. Forward Characteristics

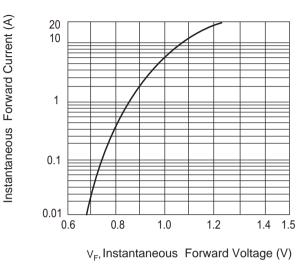
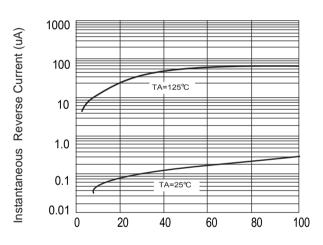
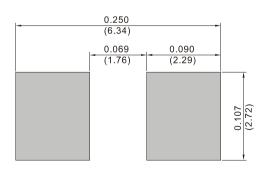


Fig.4 Typical Reverse Chracteristics



Percent Of Rated Peak Reverse Voltage (%)

Fig.6 Mounting PAD Layout



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