

Surface Mount Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000Volts **Forward Current - 3.0 Amperes**

Features

- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- AEC-Q101 qualified

Mechanical Data

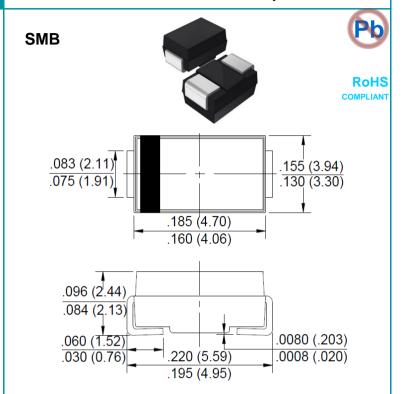
- Case: JEDEC SMB molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

Note: Products with logo or -



Applications

• For use in low voltage, high frequency inverters, polarity protection applications



Package Outline Dimensions in Inches (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%.

Characteristics	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL=75 $^{\circ}\mathrm{C}$	I(AV)	3.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	100							А
Superimposed on Rated Load (JEDEC Method)	IFSIM								
I ² t Rating for Fusing (t<8.3mS)	l ² t	41.5							A ² s
Peak Forward Voltage at 3.0A DC (Note1)	VF	1.1							V
Maximum DC Reverse Current @T $_{ m J}$ =25 $^{\circ}{ m C}$	lr	5.0							uA
at Rated DC Blocking Voltage @TJ=125℃	IK	250							
Typical Junction Capacitance (Note 2)	Cı	40							pF
Typical Thermal Resistance Junction to Lead	Røjl	10							°C/W
Typical Thermal Resistance Junction to Ambient	Reja	50							°C/W
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

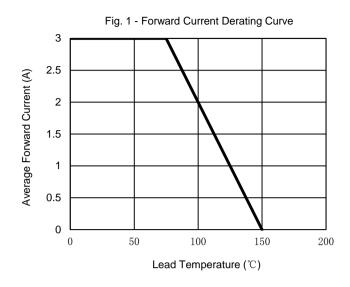
Notes: 1. 300uS pulse width, 2%duty cycle.

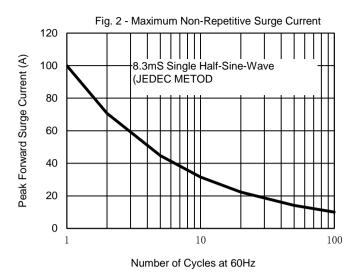
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only.

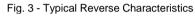
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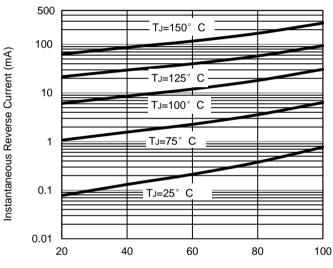
Rev. 11, 18-May-2020

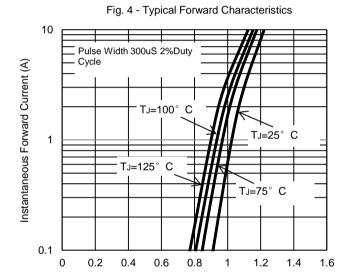














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