

Surface Mount Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Amperes

Features

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

Mechanical Data

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

Note: Products with logo



are made byHY Electronic (Cayman) Limited.

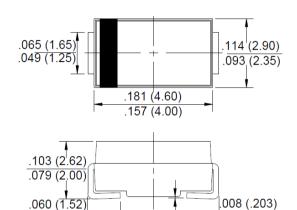
Applications

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









208 (5.28)

.188 (4.80)

.030 (0.76)

Package Outline Dimensions in Inches (Millimeters)

.002 (.051)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

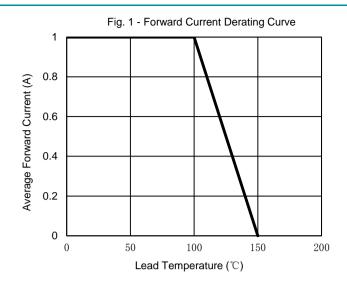
For capacitive load, derate current by 20%.

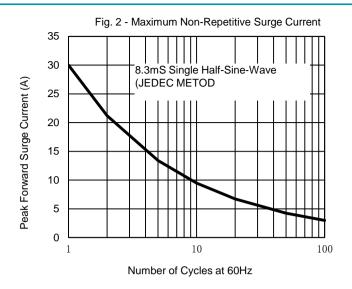
Characteristics	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T∟=100 ℃	I(AV)	1.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	30							А
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	3.7							A ² s
Peak Forward Voltage at 1.0A DC (Note1)	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C	lR	5.0 100							uA
at Rated DC Blocking Voltage @Tյ=125℃	IK								
Typical Junction Capacitance (Note 2)	Сл	10							pF
Typical Thermal Resistance Junction to Case (Note 3)	Rejc	30							°C/W
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

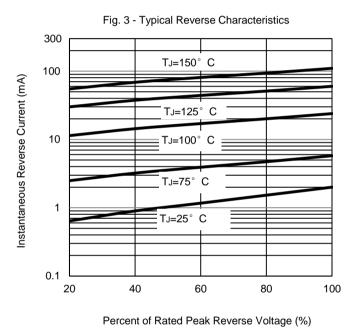
Notes: 1. 300uS pulse width, 2%duty cycle.

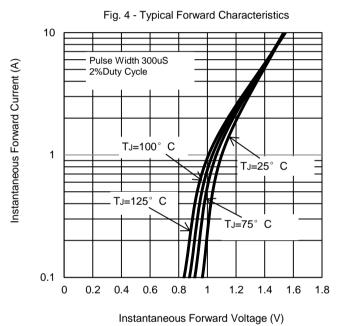
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .

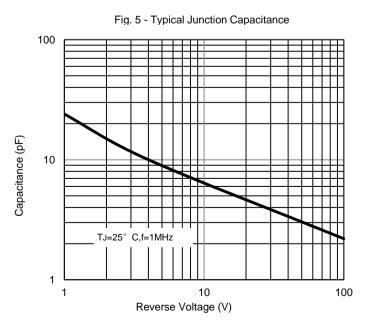












The curve above is for reference only.



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