

Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 1 A

FEATURES

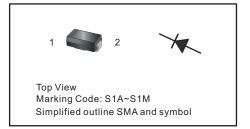
- For surface mounted applications
- · Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- · Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

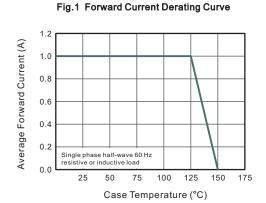
Ratings at 25 °C ambient temperature unless otherwise specified.

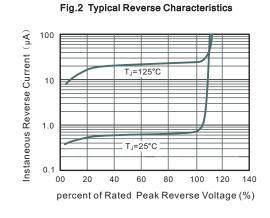
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

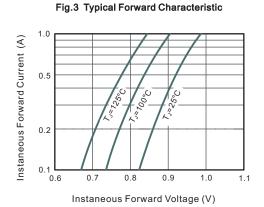
Parameter	Symbols	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1							V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 50						μA	
Typical Junction Capacitance (1)	C _j	15						pF	
Typical Thermal Resistance (2)	$R_{\theta JA}$	75							°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ + 150							°C

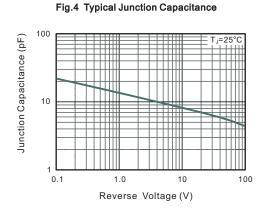
^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

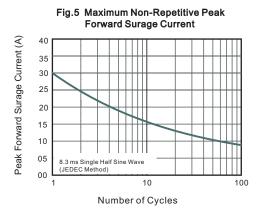
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.







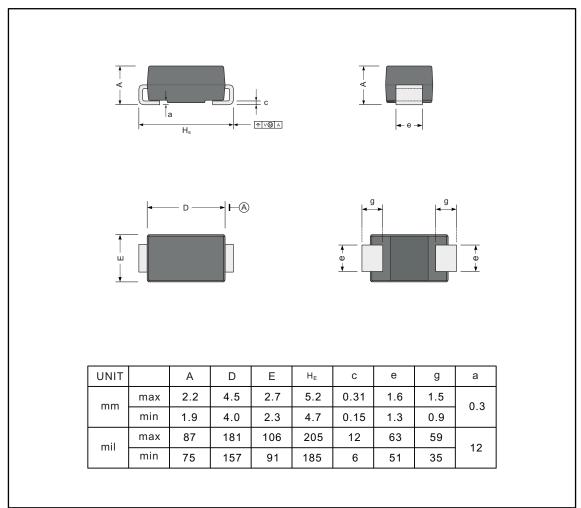




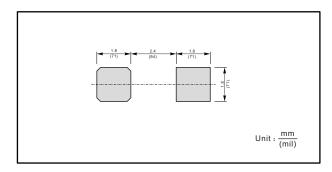
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





The recommended mounting pad size



Marking

Type number	Marking code					
S1A	S1A					
S1B	S1B					
S1D	S1D					
S1G	S1G					
S1J	S1J					
S1K	S1K					
S1M	S1M					

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