Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 2 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		



Marking Code: S2A-S2M

Simplified outline SMA and symbol

Maximum Ratings and Electrical characteristics

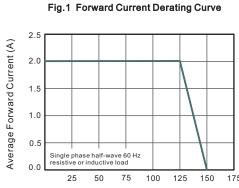
Ratings at 25 °C ambient temperature unless otherwise specified.

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

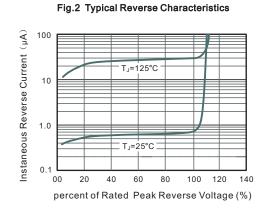
Parameter	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.1							٧
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100							μA
Typical Junction Capacitance (1)	C _j	25							pF
Typical Thermal Resistance (2)	$R_{\theta JA}$	65							°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150							°C

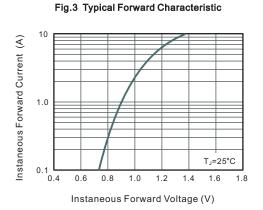
^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

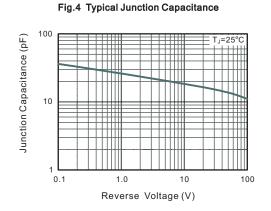
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

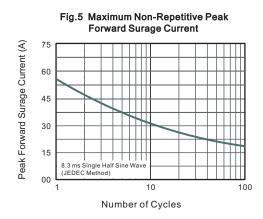


175 Case Temperature (°C)





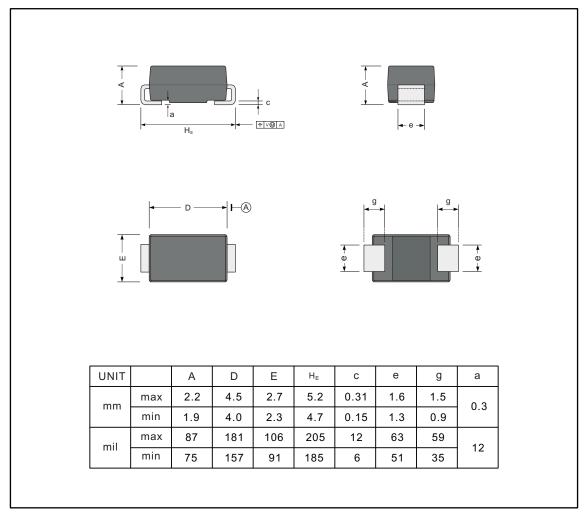




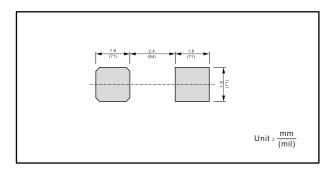
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





The recommended mounting pad size



Marking

Type number	Marking code				
S2A	S2A				
S2B	S2B				
S2D	S2D				
S2G	S2G				
S2J	S2J				
S2K	S2K				
S2M	S2M				

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