



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

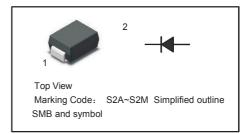
· Case: SMB

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.09g / 0.003oz

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 %.

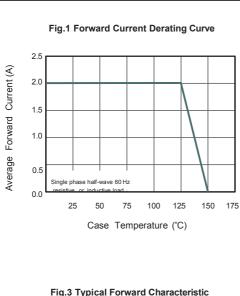
Parameter	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	l _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	Ifsм	60						А	
Maximum Instantaneous Forward Voltage at 2 A	VF	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	5 100						μA	
Typical Junction Capacitance (1)	Cj	25						pF	
Typical Thermal Resistance (2)	R $_{ ext{JA}}$ R $_{ ext{JC}}$	60 20						°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150						°C	

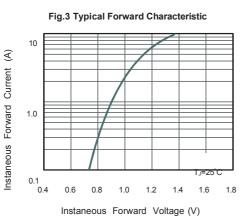
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VD.C

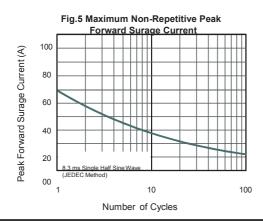
⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

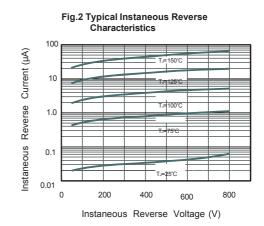


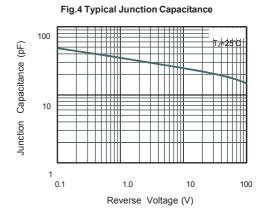












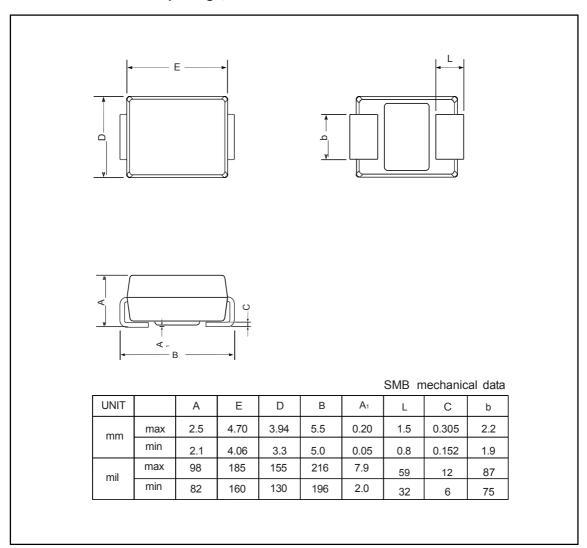




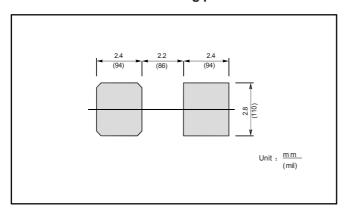
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMB



The recommended mounting pad size



Marking

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