

## S1A THRU S1M

### 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

### Absolute Maximum Ratings And Characteristics

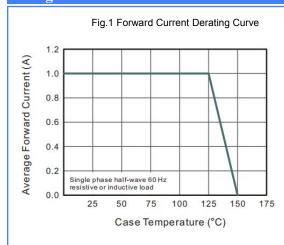
Ratings at 25°C ambient temperature unless otherwise specified.

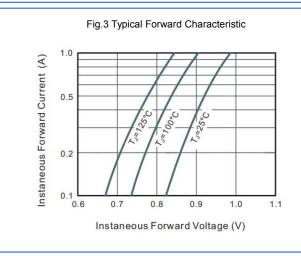
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

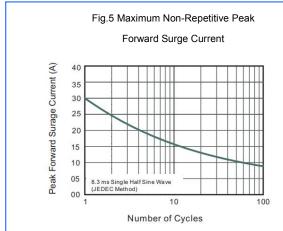
Parameter	Symbols	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35 70 140 280 420 560				700	V		
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified									A
Current at Tc = 125 °C	I <sub>F(AV)</sub>	1							
Peak Forward Surge Current 8.3 ms Single									
Half Sine Wave Superimposed on Rated	I <sub>FSM</sub>	30						Α	
Load									
Maximum Forward Voltage at 1 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current Ta = 25 °C		5 50							
at Rated DC Blocking Voltage Ta =125 °C	I <sub>R</sub>								μА
Typical Junction Capacitance (1)	Cj	15						pF	
Typical Thermal Resistance (2)	R <sub>θJA</sub>	75					°C/W		
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ <b>+</b> 150						C	

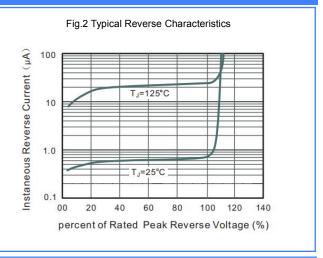
- (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

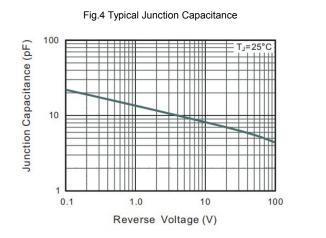
# Rating And Characteristic Curves







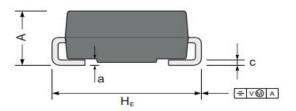


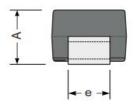


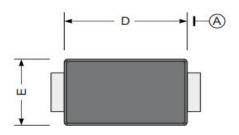
Package Outline

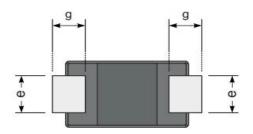
Plastic surface mounted package; 2 leads

SMA



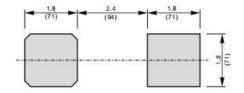






UNIT		Α	С	D	Е	е	g	HE	а
mm	max	2.2	0.31	4.5	2.7	1.6	1.5	5.2	0.3
	min	1.9	0.15	4.0	2.3	1.3	0.9	4.7	0.3
mil	max	87	12	181	106	63	59	205	12
	min	75	6	157	91	51	35	185	

The recommended mounting pad size



Unit: 
$$\frac{mm}{(mil)}$$