

RS1A THRU RS1M

Features

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- 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

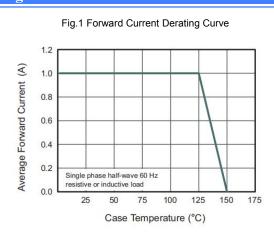
Ratings at 25°C ambient temperature unless otherwise specified.

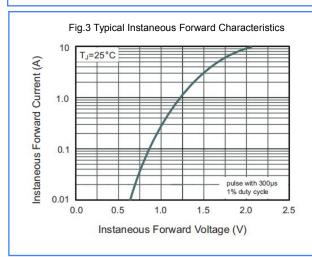
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

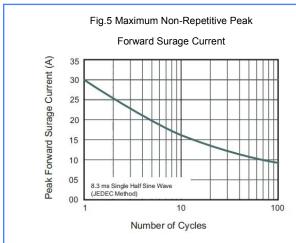
Parameter	Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc = 125 °C	I _{F(AV)}	1						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	lгsм	30						А	
Maximum Forward Voltage at 1 A	V _F	/ _F 1.3						V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 50						μА	
Typical Junction Capacitance at VR=4V f=1M	Cj	15					pF		
Maximum Reverse Recovery Time(1)	trr	150 250 500				00	ns		
Typical Thermal Resistance (2)	R _{θJA}	75					°C/W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150					°C		

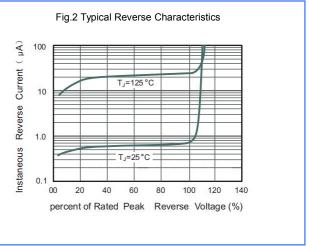
- (1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A
- (2) .P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

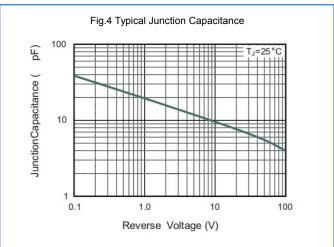
Rating And Characteristic Curves







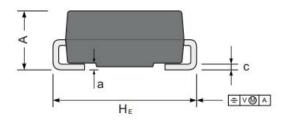


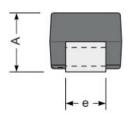


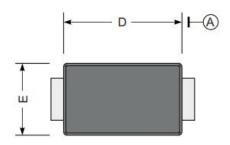
Package Outline

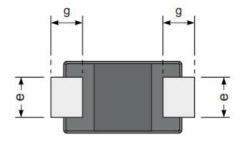
Plastic surface mounted package; 2 leads

SMA









UNIT		Α	С	D	Е	е	g	H _E	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	10
	min	75	6	157	91	51	35	185	12

The recommended mounting pad size

