

# **RS1AG THRU RS1MG**

Cathode

Anode

Marking Code: RS1A~RS1M

Simplified outline SMA and symbol

DESCRIPTION

PINNING

Top View

PIN

1

2

#### **Surface Mount Fast Recovery 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
- 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

#### **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%.

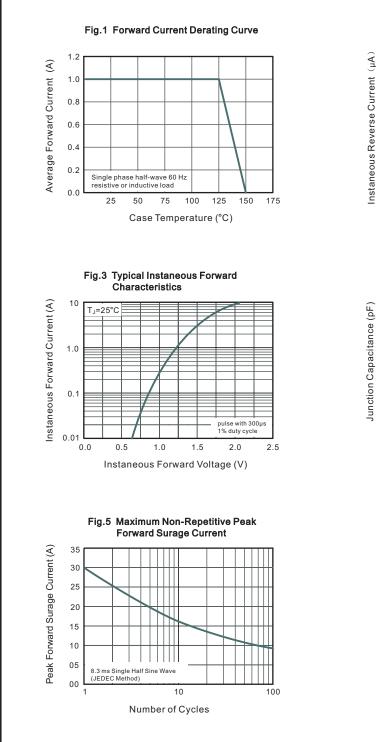
Parameter	Symbols	RS1AG	RS1BG	RS1DG	RS1GG	RS1JG	RS1KG	RS1MG	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_{\rm c}$ = 125 °C	I <sub>F(AV)</sub>	1					A		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30					А		
Maximum Forward Voltage at 1 A	V <sub>F</sub>	1.3					V		
Maximum DC Reverse Current $T_a = 25 \degree C$ at Rated DC Blocking Voltage $T_a = 125 \degree C$	I <sub>R</sub>	5 50						μA	
Typical Junction Capacitance at $V_R$ =4V, f=1MHz	Cj	15					pF		
Maximum Reverse Recovery Time <sup>(1)</sup>	t <sub>rr</sub>	150 250 500			00	ns			
Typical Thermal Resistance <sup>(2)</sup>	$R_{_{\theta JA}}$	75					°C/W		
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150					°C		

(1) Measured with  $I_F = 0.5 A$ ,  $I_R = 1 A$ ,  $I_{rr} = 0.25 A$ .

(2) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.



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#### Fig.2 Typical Reverse Characteristics

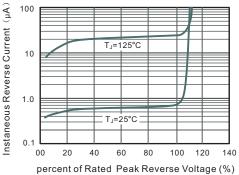
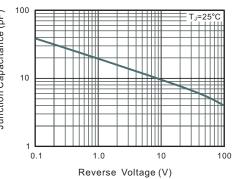


Fig.4 Typical Junction Capacitance

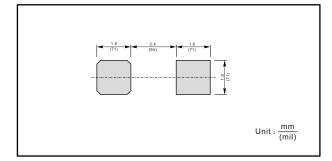




## **RS1AG THRU RS1MG**

#### PACKAGE OUTLINE Plastic surface mounted package; 2 leads **SMA** С Ta = V∭ A $\mathsf{H}_{\mathsf{E}}$ -I-A D 1 ш UNIT D Е ${\sf H}_{\sf E}$ С е А g а 2.2 4.5 0.31 1.5 2.7 5.2 1.6 max 0.3 mm min 1.9 4.0 2.3 4.7 0.15 1.3 0.9 max 87 181 106 205 12 63 59 mil 12 min 75 157 91 185 6 51 35

### The recommended mounting pad size



### Marking

Type number	Marking code				
RS1AG	RS1A				
RS1BG	RS1B				
RS1DG	RS1D				
RS1GG	RS1G				
RS1JG	RS1J				
RS1KG	RS1K				
RS1MG	RS1M				

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