

RS1AG THRU RS1MG

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

 $T_a = 25$ °C

 $T_a = 125$ °C

 I_R

 C_i

 t_{rr}

 $R_{\theta JA}$

 T_j , T_{stg}

Approx. Weight: 0.055g / 0.002oz

Absolute Maximum Ratings and Characteristics

Parameter	Symbols	RS1AG	RS1BG	RS1DG	RS1GG	RS1JG	RS1KG	RS1MG	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 T _c = 125 °C	I _{F(AV)}				1				Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}				30				Α
Maximum Forward Voltage at 1 A	V _F				1.3				V

Operating and Storage Temperature Range

Maximum DC Reverse Current

at Rated DC Blocking Voltage

Typical Junction Capacitance

Typical Thermal Resistance (2)

Maximum Reverse Recovery Time (1)

at V_R=4V, f=1MHz

150

5

50

15

75

-55 ~ +150

250

μΑ

pF

ns

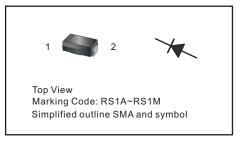
°C/W

°С

500

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



⁽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.1 Forward Current Derating Curve

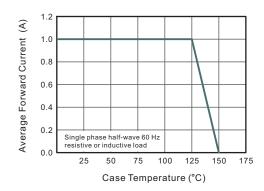


Fig.2 Typical Reverse Characteristics

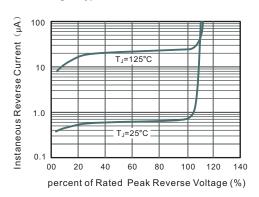


Fig.3 Typical Instaneous Forward Characteristics

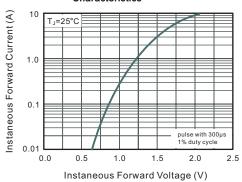


Fig.4 Typical Junction Capacitance

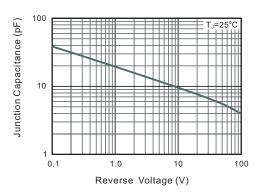
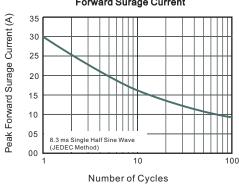


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



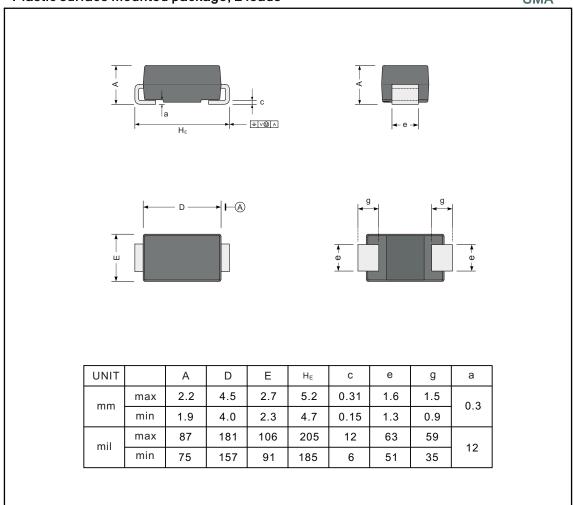


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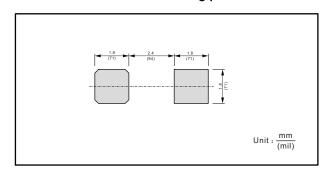
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



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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