

RS2A THRU RS2M

Surface Mount Fast Recovery Rectifiers

Surface Mount Fast Recovery 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
- 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		



Marking Code: RS2A-RS2M Simplified outline SMA and symbol

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	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	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)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50							А
Maximum Forward Voltage at 2 A	V _F	1.3							V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100							μА
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	22						pF	
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500				00	ns		
Typical Thermal Resistance (2)	R _{eJA} R _{eJC}	65 20						°C/W	
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150						°C	

^(1) Measured with I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A.

REV: A 1 of 3 www.gt-semi.com

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



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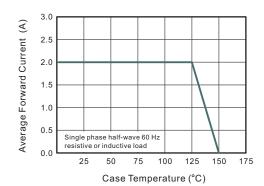


Fig.2 Typical Reverse Characteristics

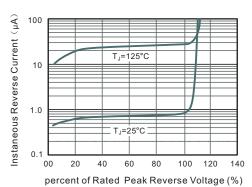


Fig.3 Typical Instaneous Forward Characteristics

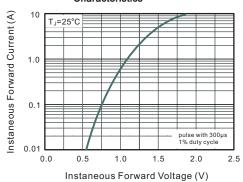


Fig.4 Typical Junction Capacitance

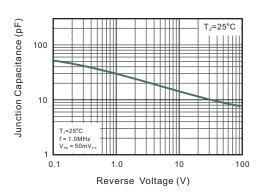
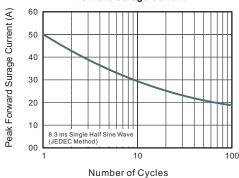


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current





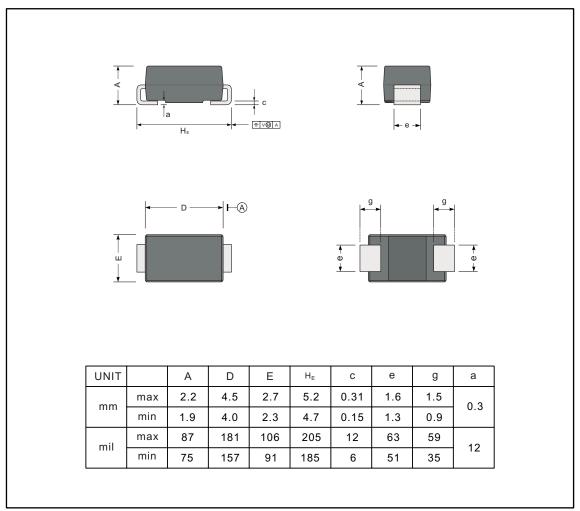
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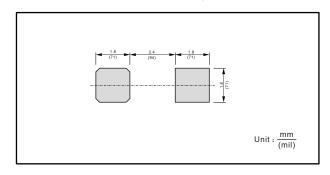
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code				
RS2A	RS2A				
RS2B	RS2B				
RS2D	RS2D				
RS2G	RS2G				
RS2J	RS2J				
RS2K	RS2K				
RS2M	RS2M				