

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

1 Cathode

2 Anode





Top View

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 $^{\circ}$ 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				٧
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	Cj				22				pF
Maximum Reverse Recovery Time (1)	t _{rr}	150			250	500		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 $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle rr}$ = 0.25 A.

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



Fig.1 Forward Current Derating Curve

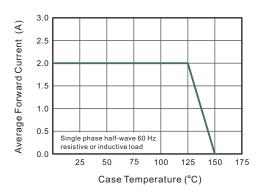


Fig.3 Typical Instaneous Forward Characteristics

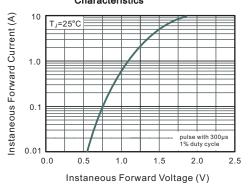


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

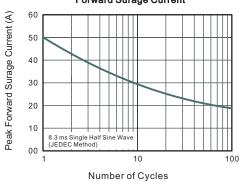


Fig.2 Typical Reverse Characteristics

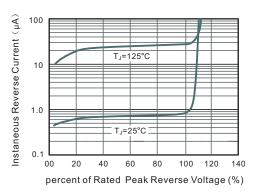
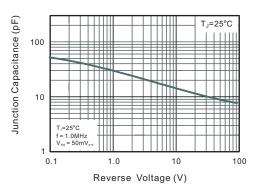


Fig.4 Typical Junction Capacitance

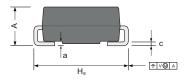




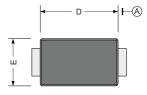
PACKAGE OUTLINE

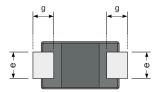
Plastic surface mounted package; 2 leads

SMA



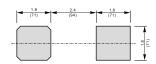






UNIT		Α	D	E	H _E	С	е	g	а	
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3	
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9		
mil	max	87	181	106	205	12	63	59	10	
	min	75	157	91	185	6	51	35	12	

The recommended mounting pad size



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

Marking

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

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