



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



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%.

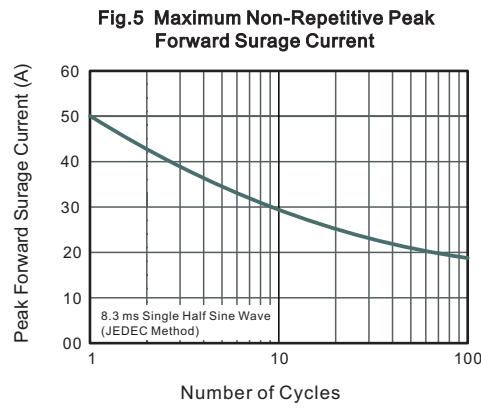
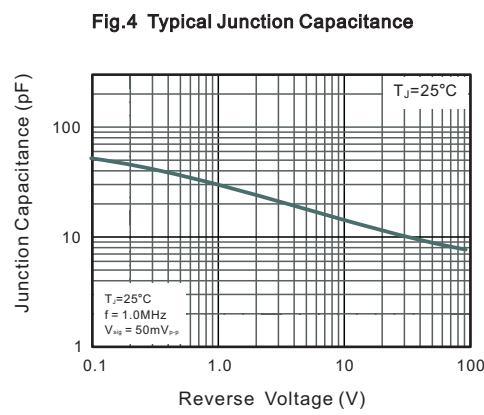
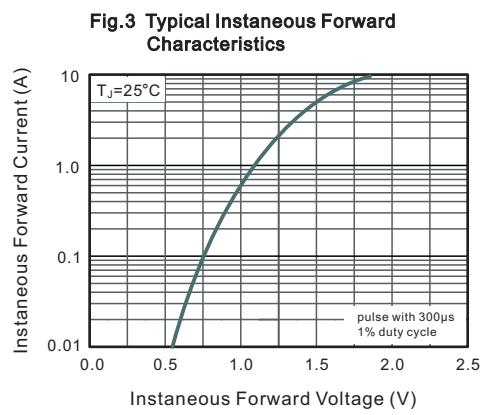
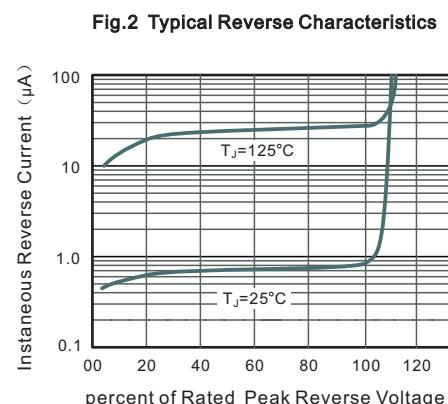
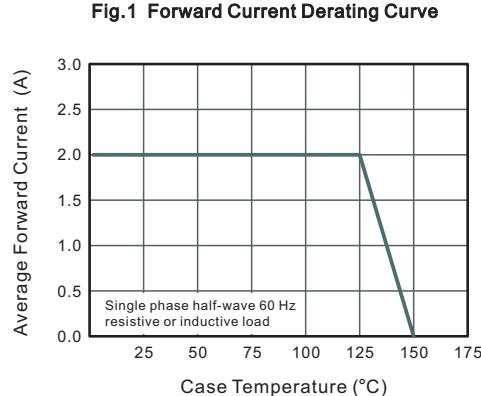
Parameter	Symbols	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Units				
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V				
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V				
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current at $T_c = 125$ °C	$I_{F(AV)}$	2						A					
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50						A					
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						μA					
Typical Junction Capacitance at $V_R=4V$, $f=1MHz$	C_j	22						pF					
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	150		250		500		ns					
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$ $R_{\theta JC}$	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.

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



RoHS
COMPLIANT





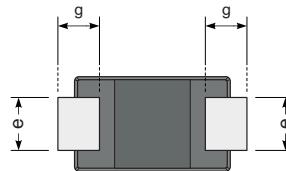
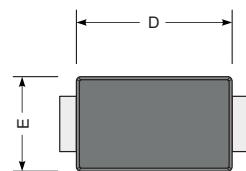
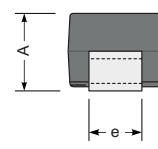
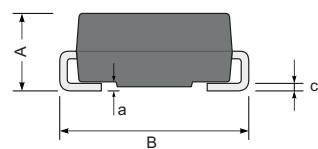
RoHS
COMPLIANT



PACKAGE OUTLINE

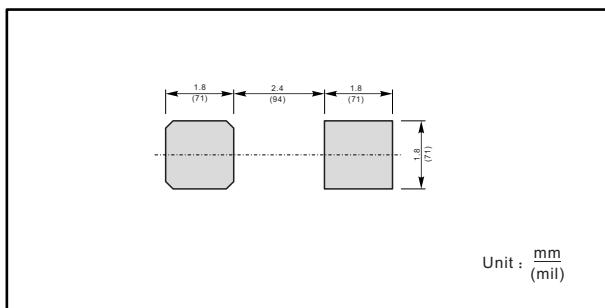
Plastic surface mounted package; 2 leads

SMA



UNIT		A	D	E	B	c	e	g	a
mm	max	2.2	4.5	2.8	5.3	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.4	4.8	0.15	1.3	0.9	
mil	max	87	181	110	209	12	63	59	12
	min	75	157	94	189	6	51	35	

The recommended mounting pad size



Marking

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