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

PINNING					
PIN	DESCRIPTION				
1	Cathode				
2	Anode				
1	2				

Top View Marking Code: RS1A~RS1M Simplified outline SMA and symbol

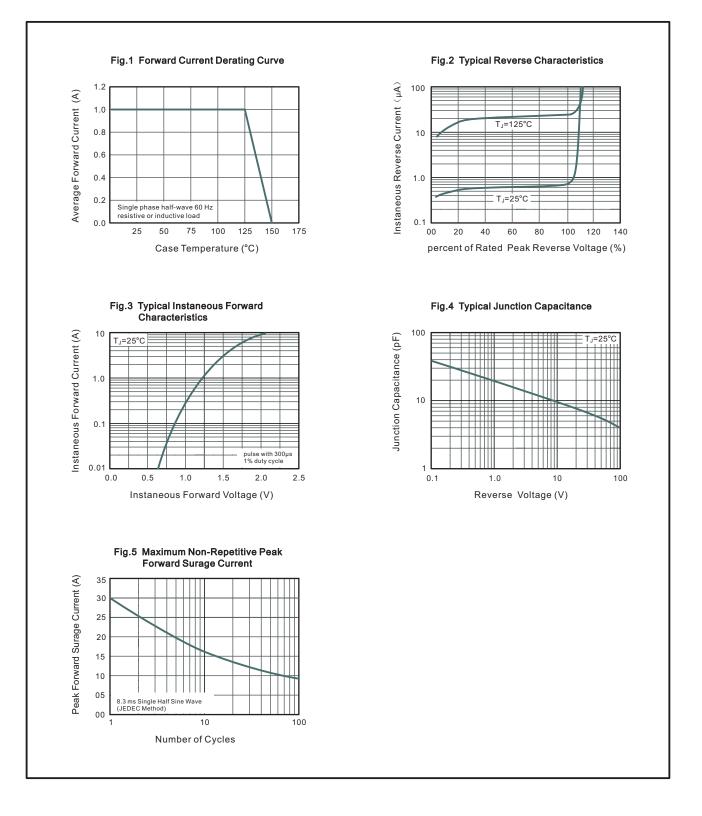
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	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 $T_{\rm c}$ = 125 °C	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30							А
Maximum Forward Voltage at 1 A	V _F	1.3							V
Maximum DC Reverse Current $T_a = 25 \degree C$ at Rated DC Blocking Voltage $T_a = 125 \degree C$	I _R	5 50						μA	
Typical Junction Capacitance at V_R =4V, f=1MHz	Cj	15						pF	
Maximum Reverse Recovery Time ⁽¹⁾	t _{rr}	150 250 500			00	ns			
Typical Thermal Resistance ⁽²⁾	R _{eja}	75						°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 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

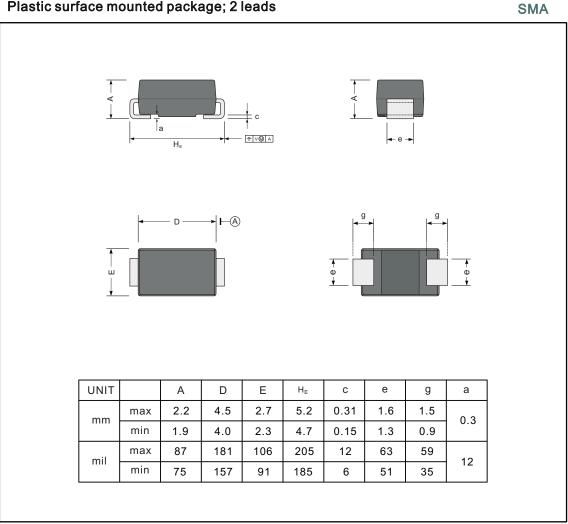




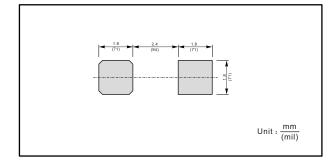


PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size



Marking

Type number	Marking code				
RS1A	RS1A				
RS1B	RS1B				
RS1D	RS1D				
RS1G	RS1G				
RS1J	RS1J				
RS1K	RS1K				
RS1M	RS1M				

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