RS1A-AT THRU RS1M-AT

SURFACE MOUNT FAST RECOVERY RECTIFIERS

Reverse Voltage: 50 to 1000 V Forward Current: 1A

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		



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%.

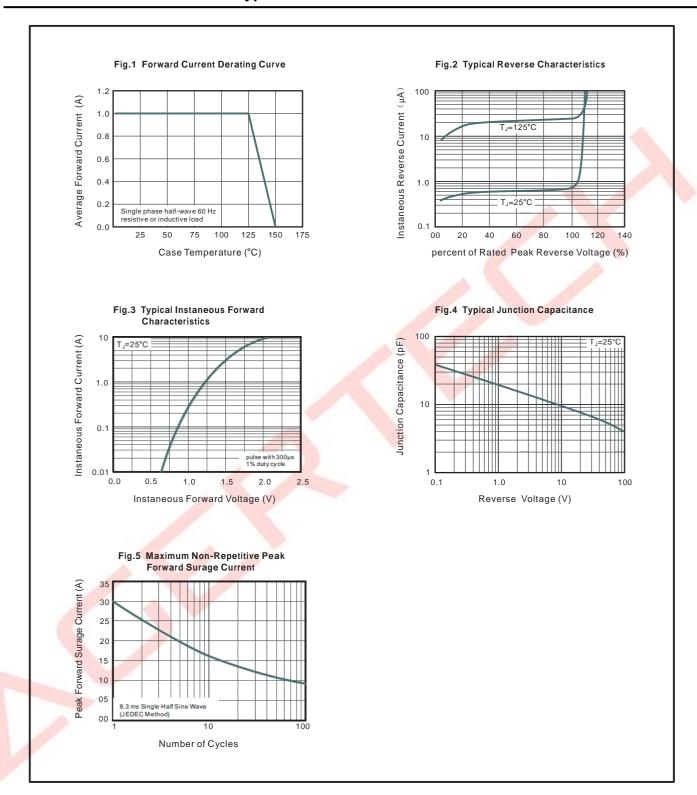
Parameter	Symbols	RS1A -AT	RS1B -AT	RS1D -AT	RS1G -AT	RS1J -AT	RS1K -AT	RS1M -AT	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _c = 125 °C	I _{F(AV)}	1							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 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	5 50						μA	
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	15						pF	
Maximum Reverse Recovery Time (1)	t _{rr}	150			250	500		ns	
Typical Thermal Resistance (2)	$R_{\theta JA}$	75						°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 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.



Typical Characteristics Curves

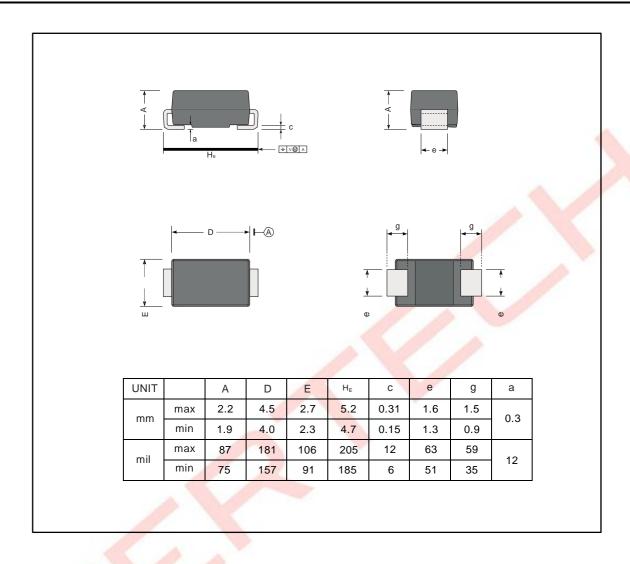




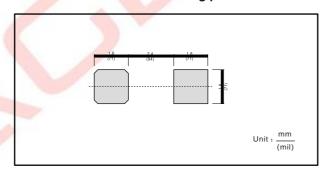
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Package Outline



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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