# 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**

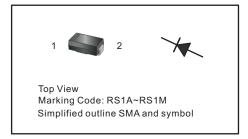
· Case: SMA

• Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.055g / 0.002oz

#### **PINNING**

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



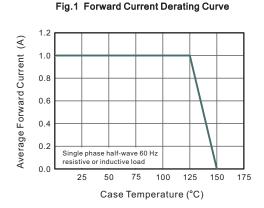
## **Absolute Maximum Ratings and Characteristics**

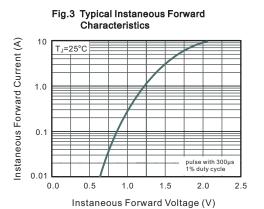
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

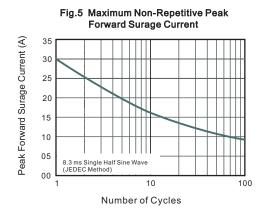
Parameter	Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>c</sub> = 125 °C	I <sub>F(AV)</sub>	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30						А	
Maximum Forward Voltage at 1 A	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> =125 °C	I <sub>R</sub>	5 50						μА	
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	Cj	15						pF	
Maximum Reverse Recovery Time (1)	t <sub>rr</sub>	150 250 500			00	ns			
Typical Thermal Resistance (2)	R <sub>eJA</sub>	75						°C/W	
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-55 ~ +150						°C	

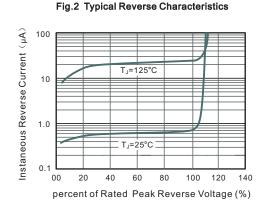
<sup>(1)</sup> Measured with  $I_F = 0.5 A$ ,  $I_R = 1 A$ ,  $I_{rr} = 0.25 A$ .

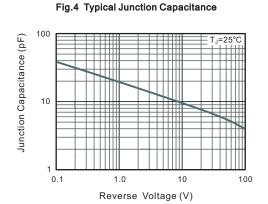
<sup>(</sup> 2 ) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.







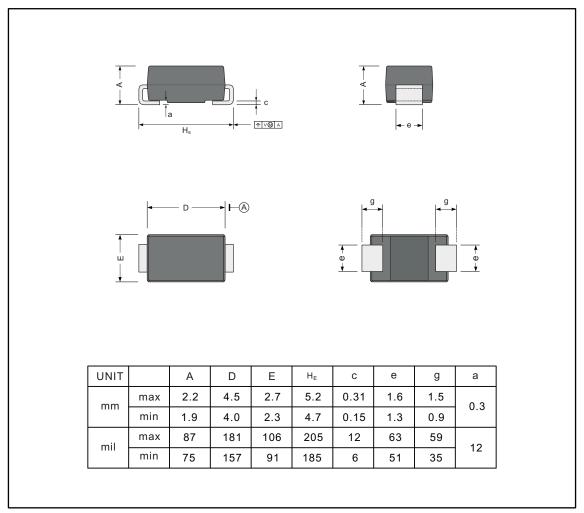




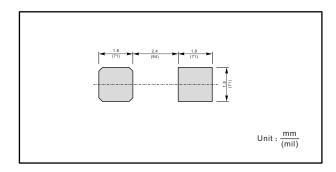
## PACKAGE OUTLINE

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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