

## Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

## FEATURES

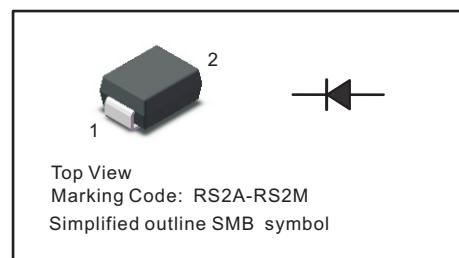
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

## MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



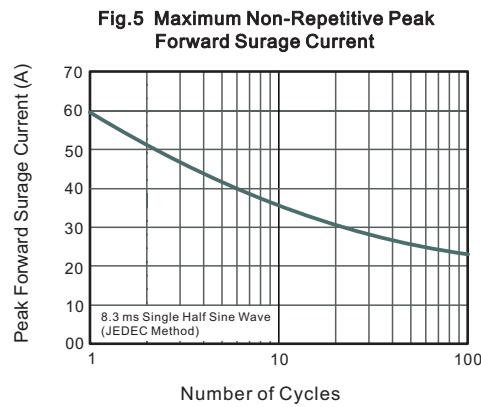
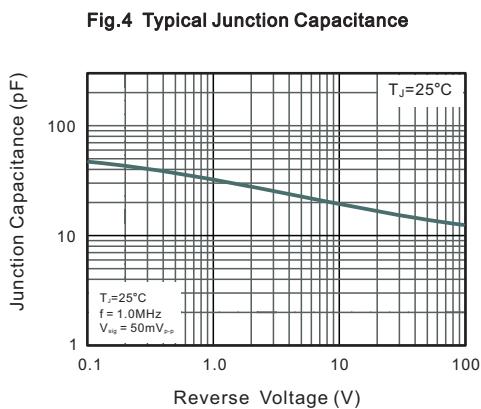
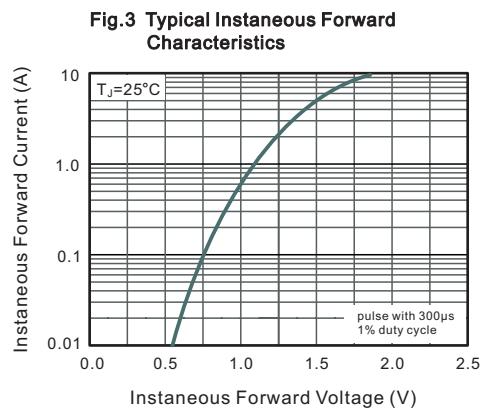
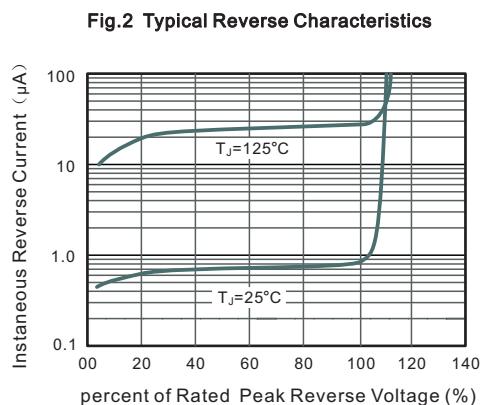
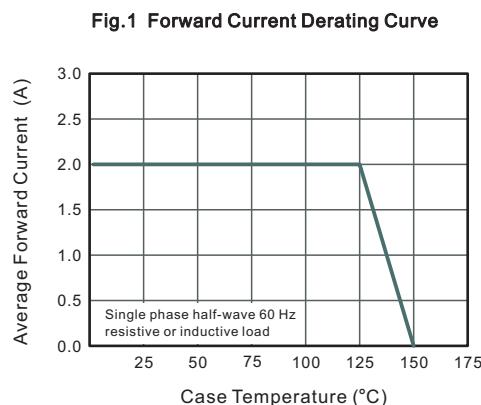
## Absolute Maximum Ratings and Characteristics

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	RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	Units				
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V				
Maximum RMS voltage	V <sub>RMS</sub>	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	I <sub>F(AV)</sub>	2							A				
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	60							A				
Maximum Forward Voltage at 2 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>	5 100							µA				
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	C <sub>j</sub>	28							pF				
Maximum Reverse Recovery Time <sup>(1)</sup>	t <sub>rr</sub>	150			250		500		ns				
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub> R <sub>θJC</sub>	60 20							°C/W				
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150							°C				

( 1 ) Measured with I<sub>f</sub> = 0.5 A, I<sub>R</sub> = 1 A, I<sub>rr</sub> = 0.25 A.

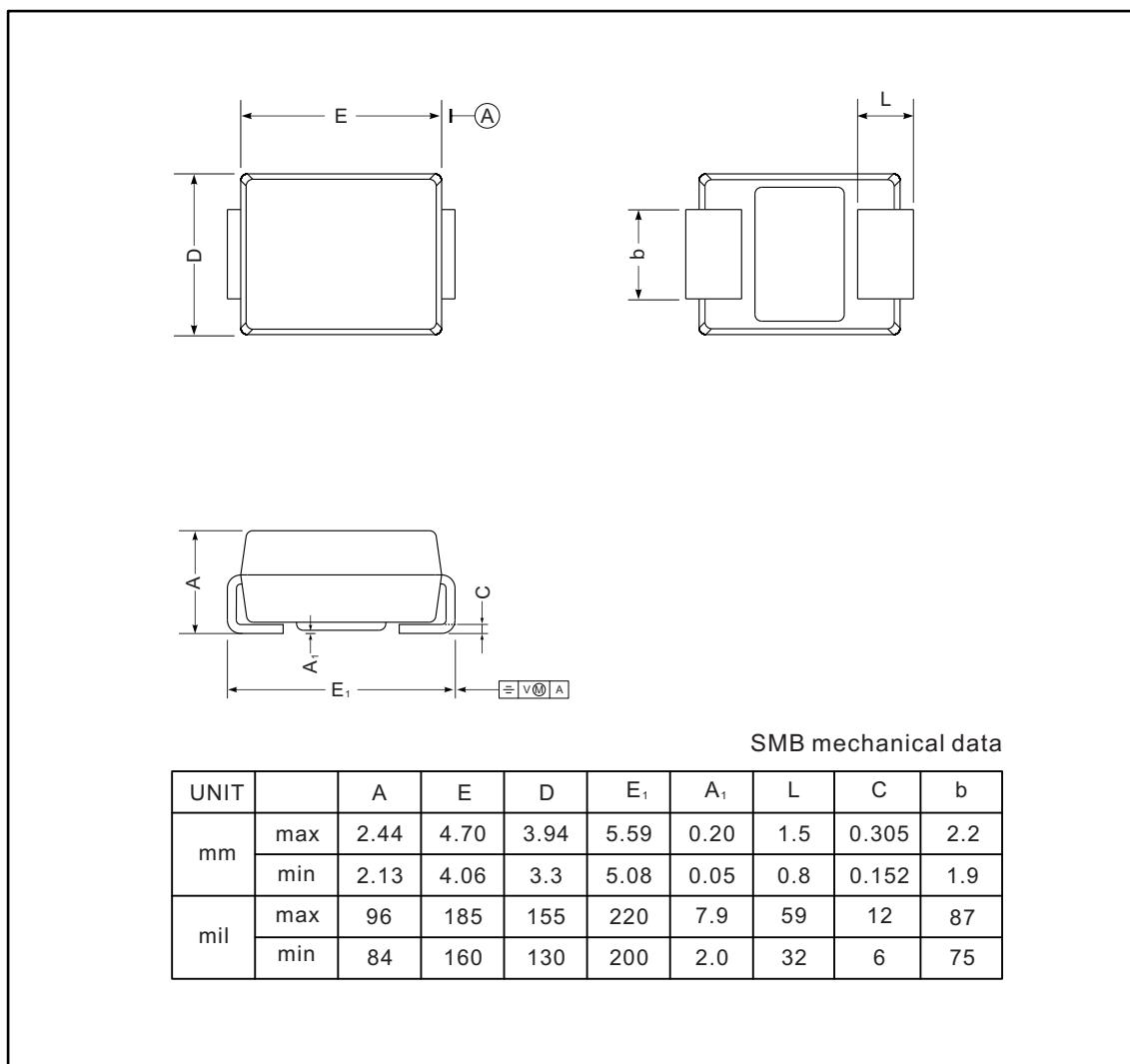
( 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



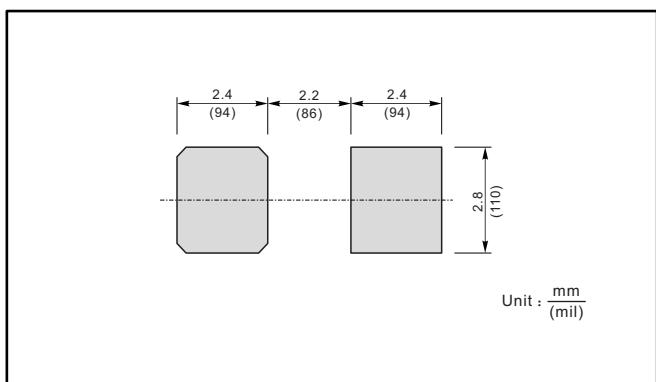
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMB



## The recommended mounting pad size



## Marking

Type number	Marking code
RS2AB	RS2A
RS2BB	RS2B
RS2DB	RS2D
RS2GB	RS2G
RS2JB	RS2J
RS2KB	RS2K
RS2MB	RS2M