



**Surface Mount General Purpose Silicon Rectifiers**

**Reverse Voltage - 50 to 1000 V**

**Forward Current - 2 A**

**FEATURES**

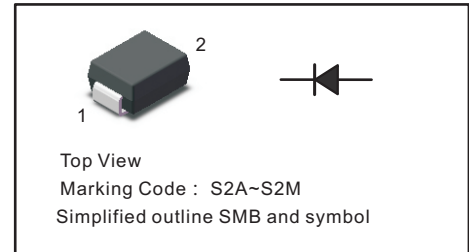
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.09g / 0.003oz

**PINNING**

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter  | Symbols                            | S2AB       | S2BB | S2DB | S2GB | S2JB | S2KB | S2MB | 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  | $I_{F(AV)}$                        | 2          |      |      |      |      |      |      | A       |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load | $I_{FSM}$                          | 60         |      |      |      |      |      |      | A       |
| Maximum Instantaneous Forward Voltage at 2 A                                       | $V_F$                              | 1.1        |      |      |      |      |      |      | V       |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage                         | $I_R$                              | 5<br>100   |      |      |      |      |      |      | $\mu A$ |
| Typical Junction Capacitance <sup>(1)</sup>  | $C_j$                              | 25         |      |      |      |      |      |      | pF      |
| Typical Thermal Resistance <sup>(2)</sup>  | $R_{\theta JA}$<br>$R_{\theta JC}$ | 60<br>20   |      |      |      |      |      |      | °C/W    |
| Operating and Storage Temperature Range  | $T_j, T_{stg}$                     | -55 ~ +150 |      |      |      |      |      |      | °C      |

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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



Fig.1 Forward Current Derating Curve

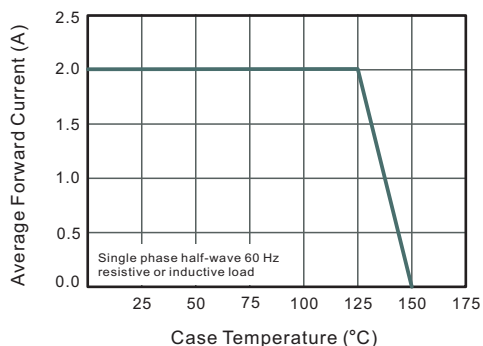


Fig.2 Typical Instantaneous Reverse Characteristics

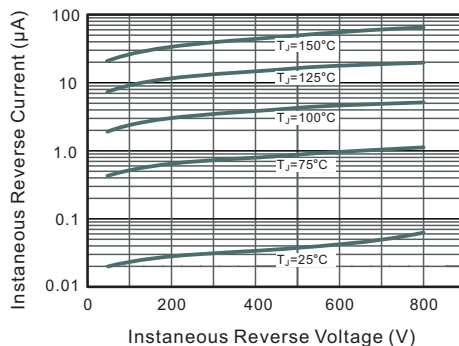


Fig.3 Typical Forward Characteristic

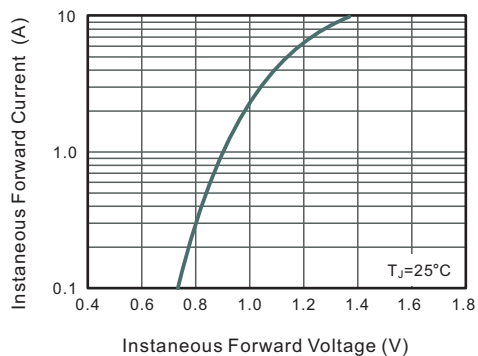


Fig.4 Typical Junction Capacitance

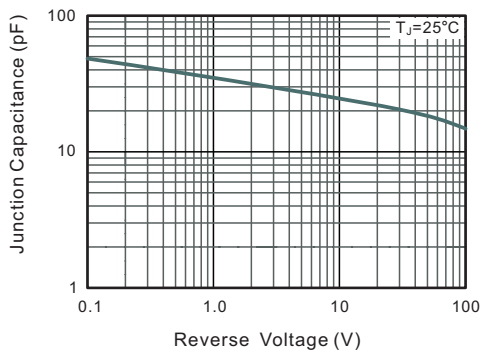
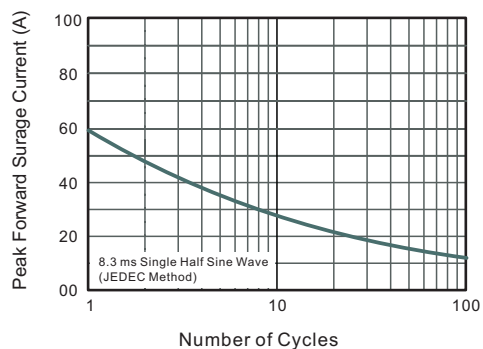


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





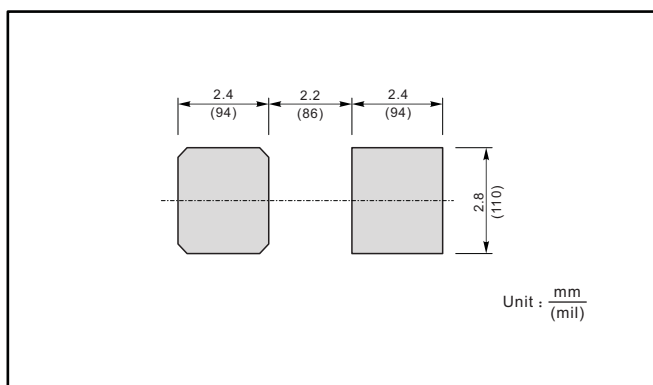
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SMB



**The recommended mounting pad size**



**Marking**

| Type number | Marking code |
|-------------|--------------|
| S2AB        | S2A          |
| S2BB        | S2B          |
| S2DB        | S2D          |
| S2GB        | S2G          |
| S2JB        | S2J          |
| S2KB        | S2K          |
| S2MB        | S2M          |

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