



**Surface Mount Schottky Barrier Rectifier**

**Reverse Voltage - 20 to 200 V**

**Forward Current - 3 A**

**FEATURES**

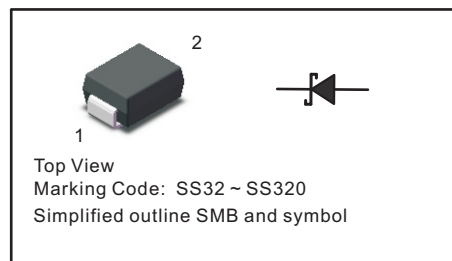
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

**MECHANICAL DATA**

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 95mg ( 0.0034oz )

**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         | SS32B      | SS34B | SS36B | SS38B    | SS310B | SS312B | SS315B | SS320B | Units |
|---|-----------------|------------|-------|-------|----------|--------|--------|--------|--------|-------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 20         | 40    | 60    | 80       | 100    | 120    | 150    | 200    | V     |
| Maximum RMS voltage   | $V_{RMS}$       | 14         | 28    | 42    | 56       | 70     | 84     | 105    | 140    | V     |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 20         | 40    | 60    | 80       | 100    | 120    | 150    | 200    | V     |
| Maximum Average Forward Rectified Current   | $I_{F(AV)}$     | 3.0        |       |       |          |        |        |        |        | A     |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)         | $I_{FSM}$       | 80         |       |       |          |        |        |        |        | A     |
| Max Instantaneous Forward Voltage at 3 A  | $V_F$           | 0.55       | 0.70  |       | 0.85     |        | 0.95   |        |        | V     |
| Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$ | $I_R$           | 0.5<br>5   |       |       | 0.3<br>3 |        |        |        |        | mA    |
| Typical Junction Capacitance <sup>(1)</sup>   | $C_j$           | 450        |       |       | 400      |        |        |        |        | pF    |
| Typical Thermal Resistance <sup>(2)</sup>   | $R_{\theta JA}$ | 60         |       |       |          |        |        |        |        | °C/W  |
| Operating Junction Temperature Range  | $T_j$           | -55 ~ +150 |       |       |          |        |        |        |        | °C    |
| Storage Temperature Range   | $T_{stg}$       | -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

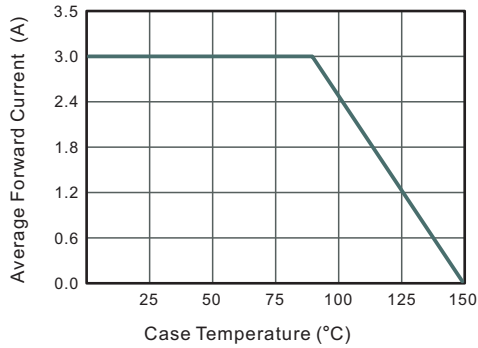


Fig.2 Typical Reverse Characteristics

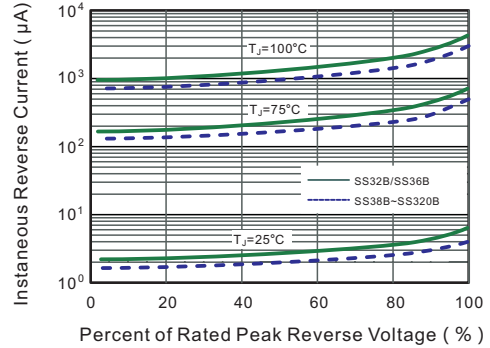


Fig.3 Typical Forward Characteristic

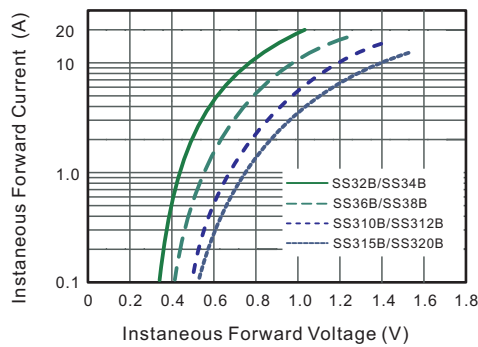


Fig.4 Typical Junction Capacitance

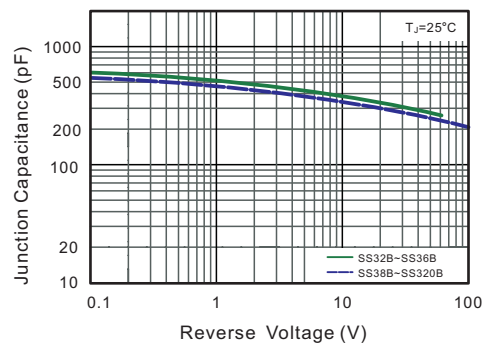


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

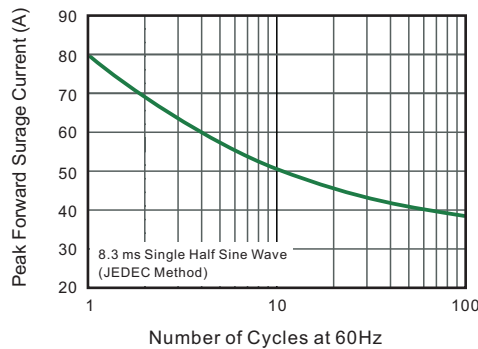
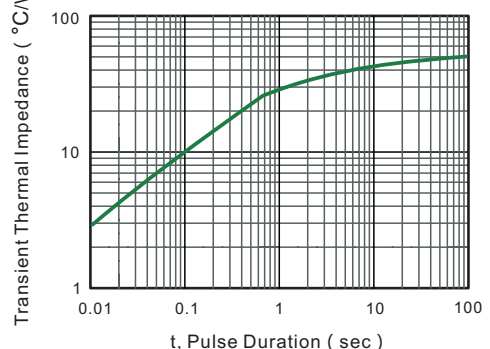


Fig.6- Typical Transient Thermal Impedance





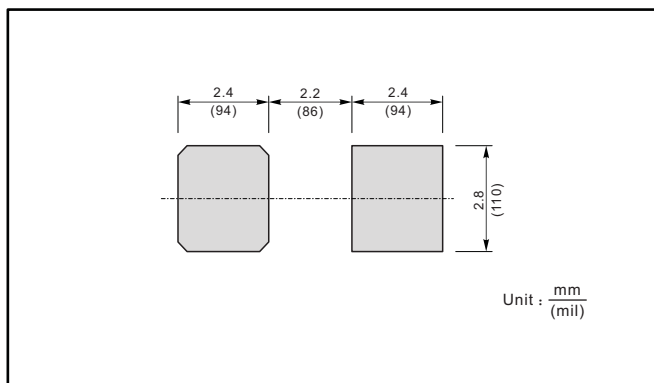
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SMB



**The recommended mounting pad size**



**Marking**

| Type number | Marking code |
|-------------|--------------|
| SS32B       | SS32         |
| SS34B       | SS34         |
| SS36B       | SS36         |
| SS38B       | SS38         |
| SS310B      | SS310        |
| SS312B      | SS312        |
| SS315B      | SS315        |
| SS320B      | SS320        |

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