



Surface Mount Schottky Barrier Rectifier  
Reverse Voltage - 20 to 200V  
Forward Current - 2.0A

#### FEATURES

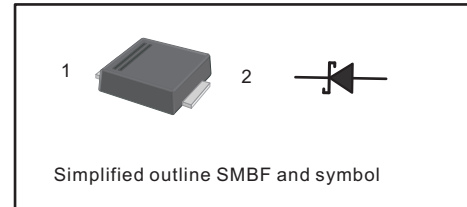
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

#### MECHANICAL DATA

- Case: SMBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 57mg / 0.002oz

#### PINNING

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



#### Absolute Maximum Ratings and Electrical characteristics

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

| Parameter   | Symbols         | SS22BF     | SS24BF | SS26BF | SS28BF   | SS210BF | SS212BF | SS215BF | SS220BF | 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   | $I_{F(AV)}$     | 2.0        |        |        |          |         |         |         |         | A     |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)         | $I_{FSM}$       | 50         |        |        |          |         |         |         |         | A     |
| Max Instantaneous Forward Voltage at 2 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>   | $C_j$           | 220        |        |        | 110      |         |         |         |         | pF    |
| Typical Thermal Resistance <sup>(2)</sup>   | $R_{\theta JA}$ | 75         |        |        |          |         |         |         |         | °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

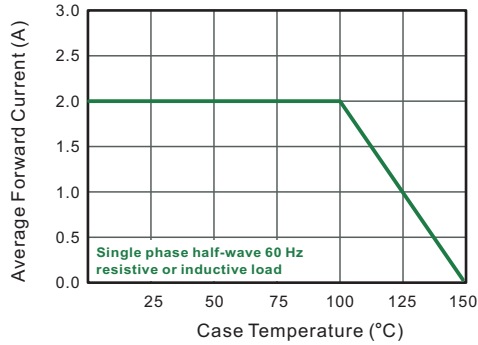


Fig.2 Typical Reverse Characteristics

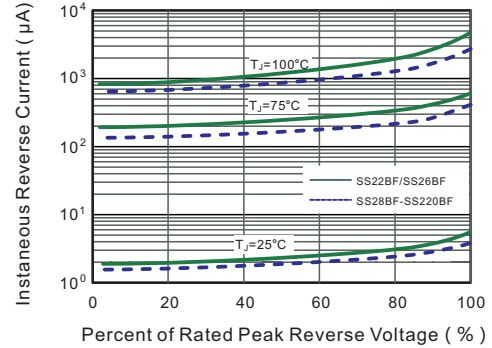


Fig.3 Typical Forward Characteristic

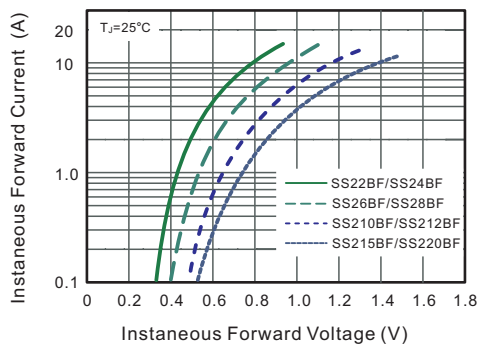


Fig.4 Typical Junction Capacitance

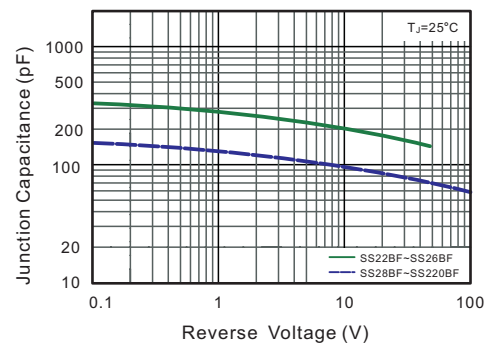


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

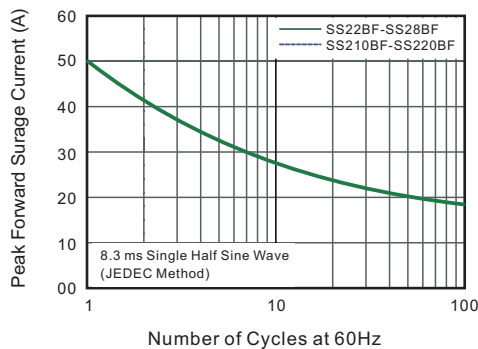
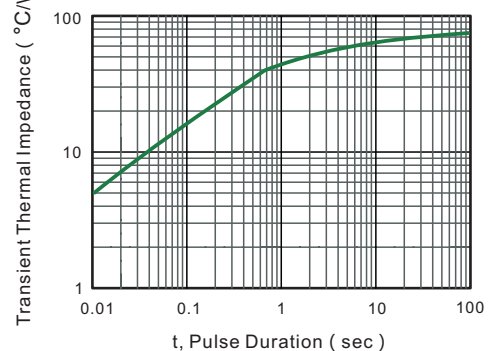


Fig.6- Typical Transient Thermal Impedance

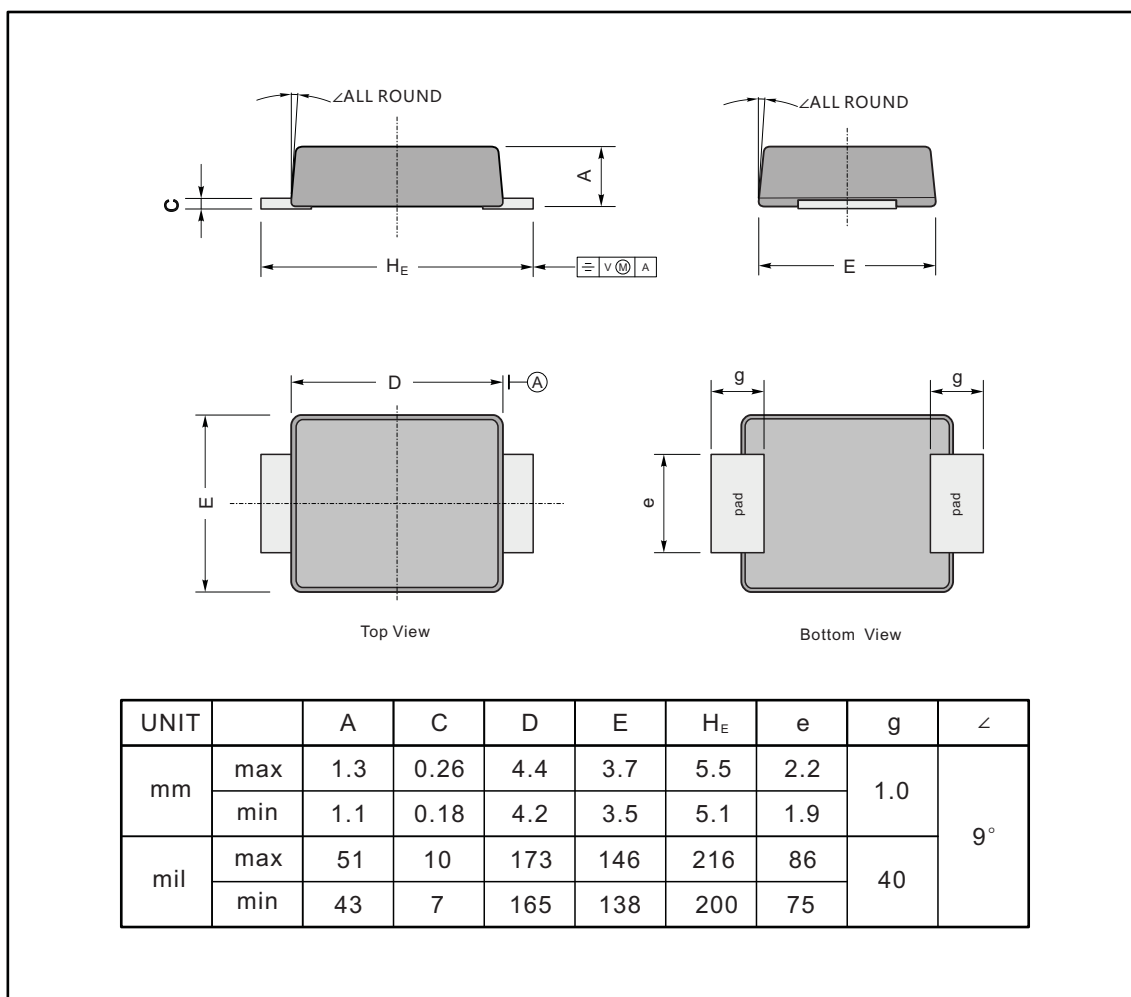




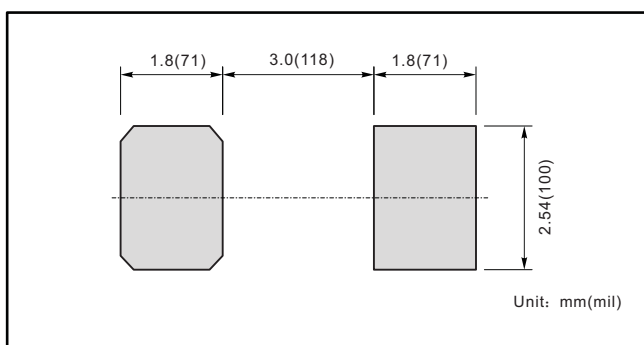
### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



### The recommended mounting pad size



### Marking

| Type number | Marking code |
|-------------|--------------|
| SS22BF      | S22B         |
| SS24BF      | S24B         |
| SS26BF      | S26B         |
| SS28BF      | S28B         |
| SS210BF     | S210B        |
| SS212BF     | S212B        |
| SS215BF     | S215B        |
| SS220BF     | S220B        |

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