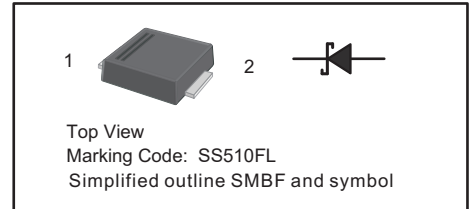


**Surface Mount Schottky Barrier Rectifier**  
**Reverse Voltage - 100 V**  
**Forward Current - 5.0A**

**PINNING**

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


**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

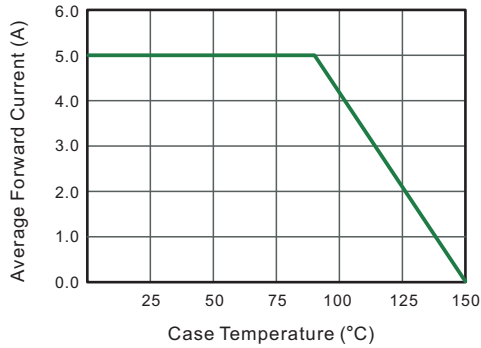
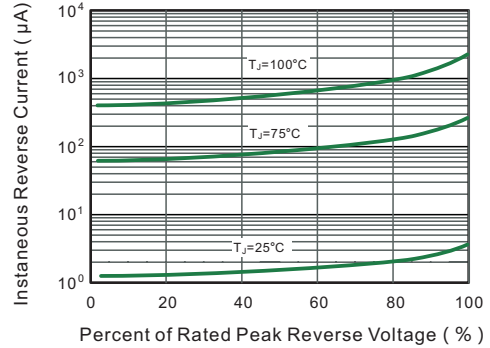
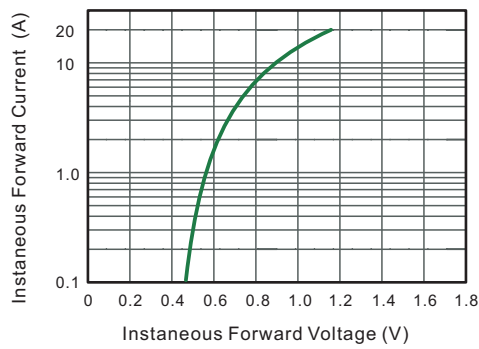
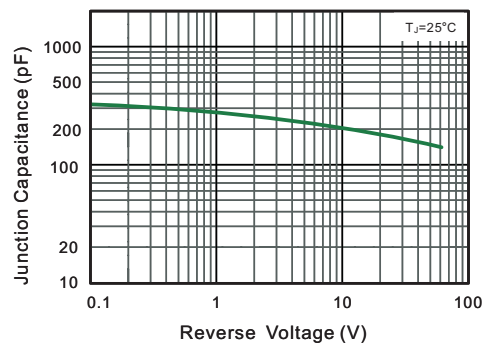
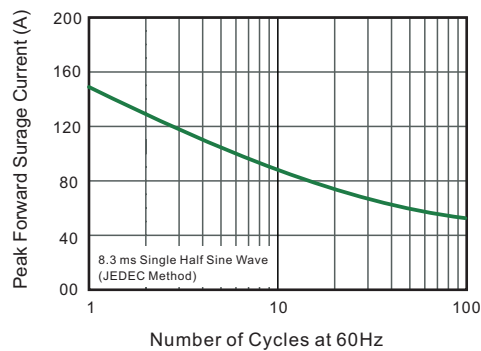
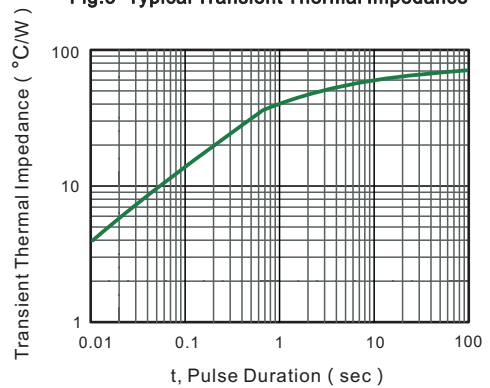
**Absolute Maximum Ratings and Electrical characteristics**

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         | SS510FL    | Units |
|---|-----------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$       | 100        | V     |
| Maximum RMS voltage   | $V_{RMS}$       | 70         | V     |
| Maximum DC Blocking Voltage   | $V_{DC}$        | 100        | V     |
| Maximum Average Forward Rectified Current   | $I_{F(AV)}$     | 5.0        | A     |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | $I_{FSM}$       | 150        | A     |
| Max Instantaneous Forward Voltage at 5 A  | $V_F$           | 0.75       | V     |
| Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage                   | $I_R$           | 0.1        | mA    |
| Typical Junction Capacitance <sup>(1)</sup>   | $C_j$           | 180        | 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    |

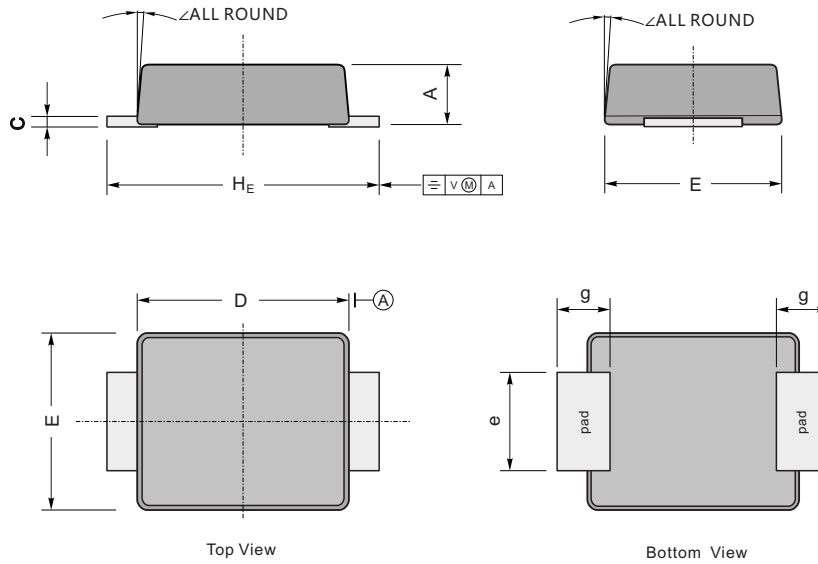
( 1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

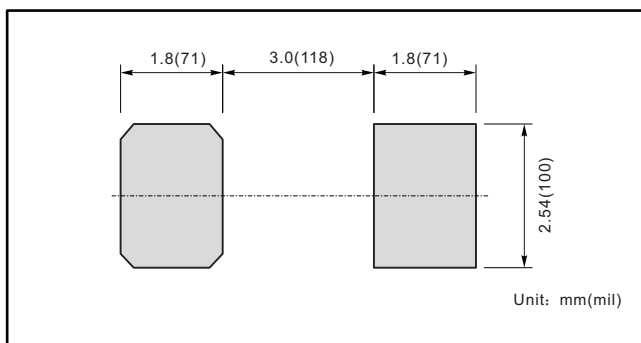
**Fig.1 Forward Current Derating Curve**

**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.5- Typical Transient Thermal Impedance**


**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SMBF**


| UNIT |     | A   | C    | D   | E   | $H_E$ | e   | g   | $\angle$ |
|------|-----|-----|------|-----|-----|-------|-----|-----|----------|
| mm   | max | 1.3 | 0.26 | 4.4 | 3.7 | 5.5   | 2.2 | 1.0 | 9°       |
|      | min | 1.1 | 0.18 | 4.2 | 3.5 | 5.1   | 1.9 |     |          |
| mil  | max | 51  | 10   | 173 | 146 | 216   | 86  |     |          |
|      | min | 43  | 7    | 165 | 138 | 200   | 75  |     |          |

**The recommended mounting pad size**


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