



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40V

Forward Current - 5.0A

FEATURES

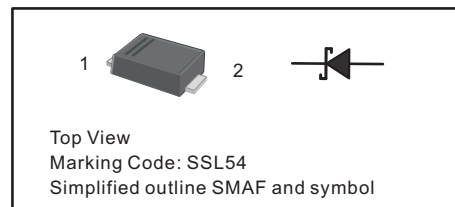
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg / 0.00095oz

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 | SSL54F | Units |
|--|-----------------|---|--------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 40 | V |
| Maximum RMS voltage | V_{RMS} | 28 | V |
| Maximum DC Blocking Voltage | V_{DC} | 40 | V |
| Maximum Average Forward Rectified Current at $T_c = 100\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 5 | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load | I_{FSM} | 150 | A |
| Maximum Instantaneous Forward Voltage at 5A | V_F | 0.45 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | $T_a = 25\text{ }^\circ\text{C}$ 1.0 | mA |
| | | $T_a = 100\text{ }^\circ\text{C}$ 50 | |
| Typical Junction Capacitance ⁽¹⁾ | C_j | 800 | pF |
| Typical Thermal Resistance ⁽²⁾ | $R_{\theta JA}$ | 45 | $^\circ\text{C/W}$ |
| Operating Junction Temperature Range | T_j | -55 ~ +150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | $^\circ\text{C}$ |

(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

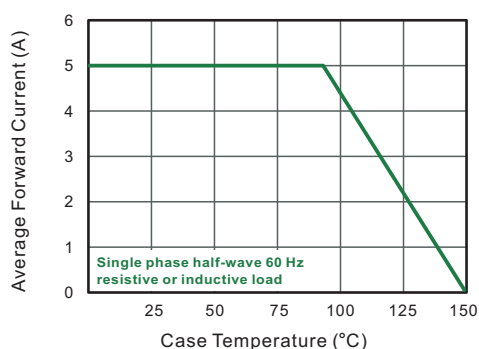


Fig.2 Typical Reverse Characteristics

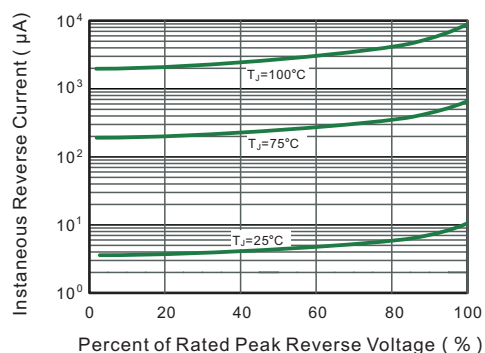


Fig.3 Typical Forward Characteristic

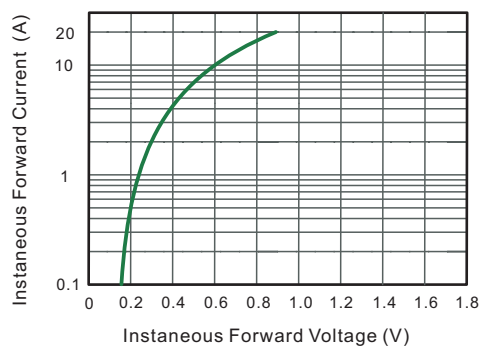


Fig.4 Typical Junction Capacitance

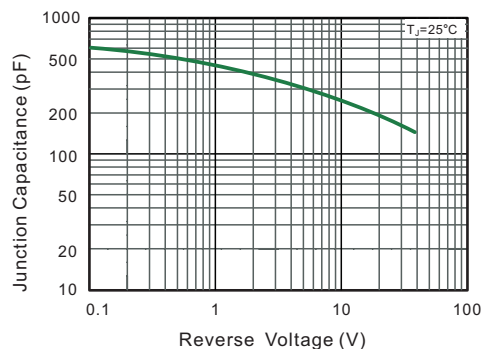


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

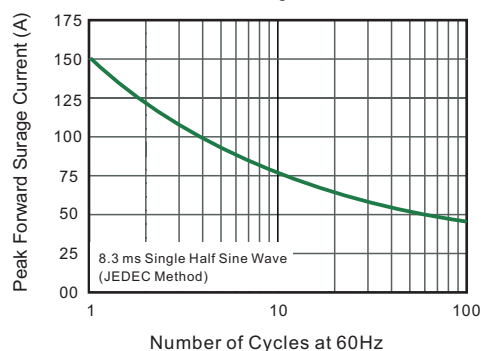
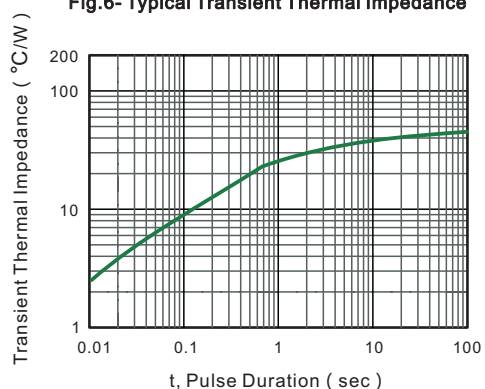


Fig.6- Typical Transient Thermal Impedance

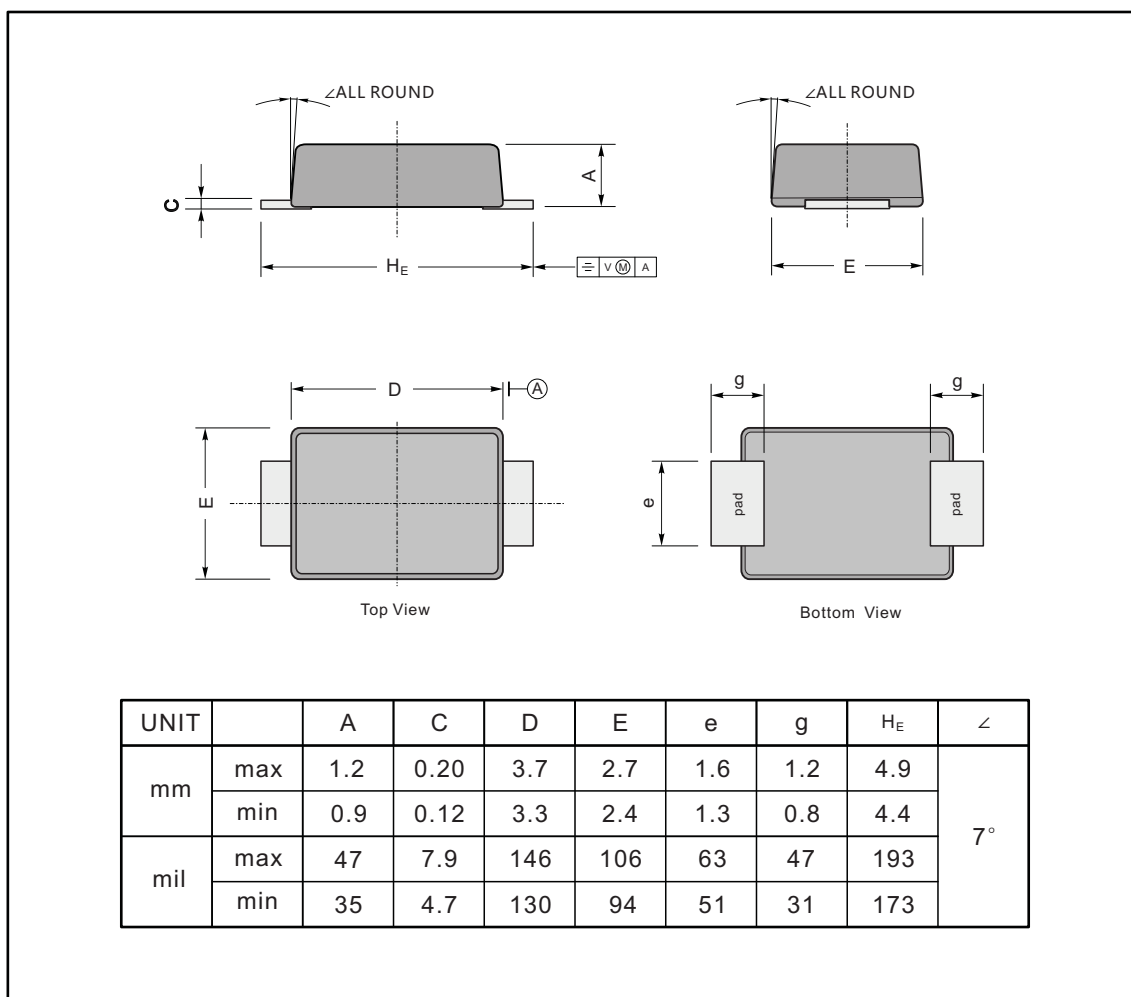




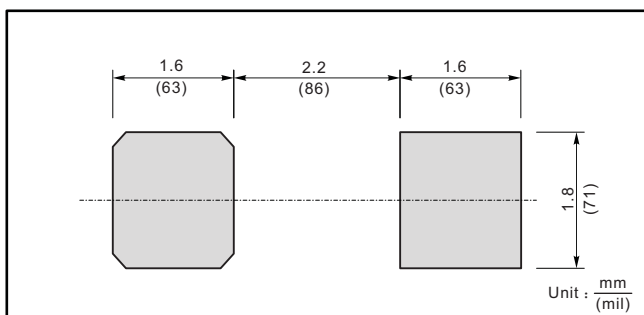
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| SSL54F | SSL54 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>JINGDAO\(晶导\)](#)