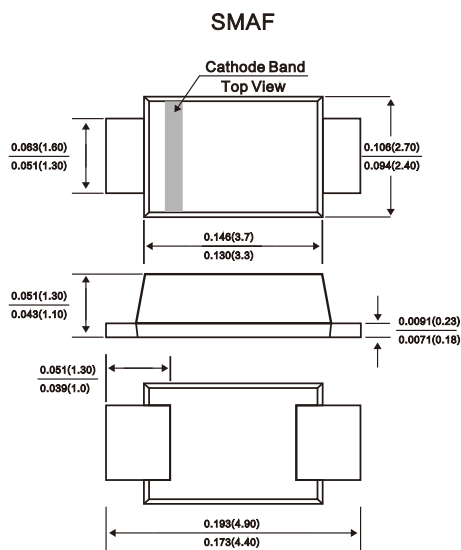


### Features

- 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



Dimensions in inches and (millimeters)

### 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         | SS32F      | SS34 F | SS36F | SS38F    | SS310F | SS312F | SS315F | SS320F | 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         |        |       |          | 70     |        |        |        | A             |
| Max Instantaneous Forward Voltage at 3 A  | $V_F$           | 0.55       | 0.70   |       | 0.85     |        | 0.95   |        | V      |               |
| Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$   | $I_R$           | 0.5<br>5   |        |       | 0.3<br>3 |        |        |        | mA     |               |
| Typical Junction Capacitance <sup>(1)</sup>   | $C_j$           | 250        |        |       | 180      |        |        |        | pF     |               |
| Typical Thermal Resistance <sup>(2)</sup>   | $R_{\theta JA}$ | 70         |        |       |          |        |        |        |        | $^{\circ}C/W$ |
| Operating Junction Temperature Range  | $T_j$           | -55 ~ +150 |        |       |          |        |        |        |        | $^{\circ}C$   |
| Storage Temperature Range   | $T_{stg}$       | -55 ~ +150 |        |       |          |        |        |        |        | $^{\circ}C$   |

( 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

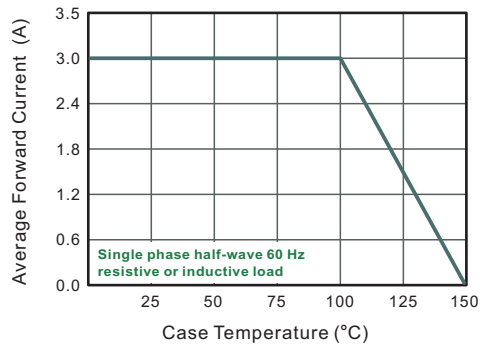


Fig.2 Typical Reverse Characteristics

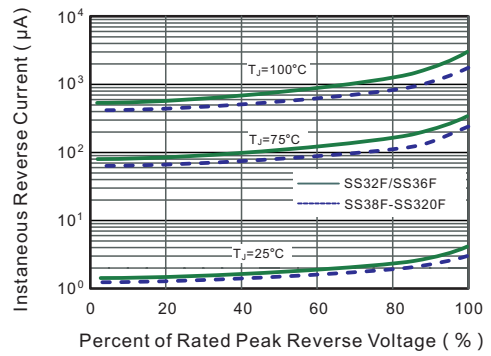


Fig.3 Typical Forward Characteristic

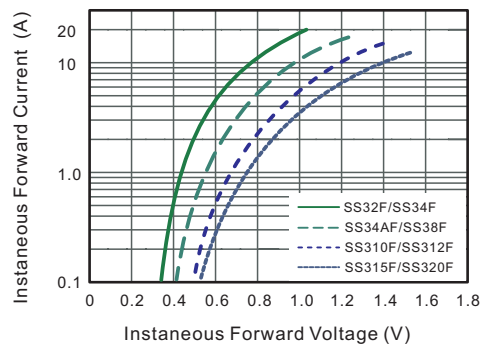


Fig.4 Typical Junction Capacitance

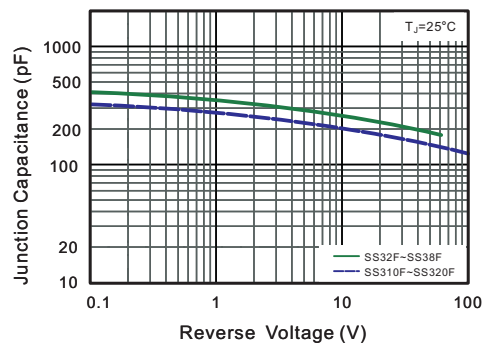


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

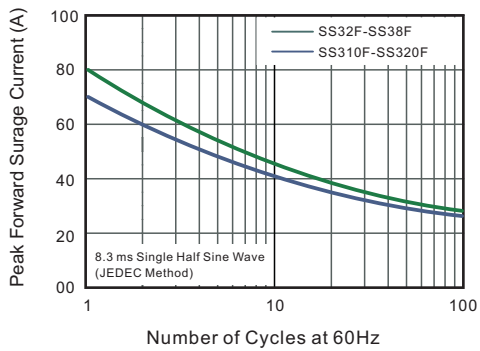
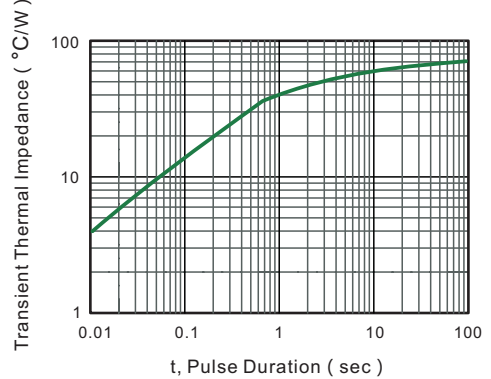


Fig.5- Typical Transient Thermal Impedance



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