



Features

- Average Forward Current: $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SMAF

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|----------------|------|---------|----------|
| RBR3LAM60ATFTR | SMAF | SS36F | 3000 |



Maximum Ratings (Ta=25°C unless otherwise noted)

| Parameter | Symbols | Limit | Units |
|---|-----------------|------------|---------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 60 | V |
| Maximum RMS voltage | V_{RMS} | 42 | V |
| Maximum DC Blocking Voltage | V_{DC} | 60 | 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 | 0.70 | V |
| Maximum DC Reverse Current at $T_a = 25^{\circ}C$ Rated DC Reverse Voltage $T_a = 100^{\circ}C$ | I_R | 0.3 5 | mA |
| Typical Junction Capacitance ¹⁾ | C_j | 160 | pF |
| Typical Thermal Resistance ²⁾ | $R_{\theta JA}$ | 40 | $^{\circ}C/W$ |
| Operating Junction Temperature Range | T_j | -55 ~ +125 | $^{\circ}C$ |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | $^{\circ}C$ |

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

2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



Typical Characteristics

Fig.1 Forward Current Derating Curve

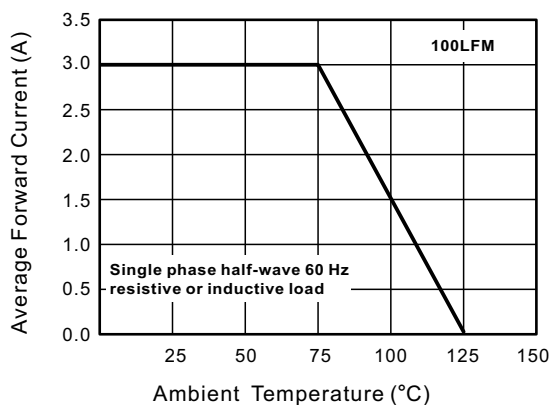


Fig.2 Typical Reverse Characteristics

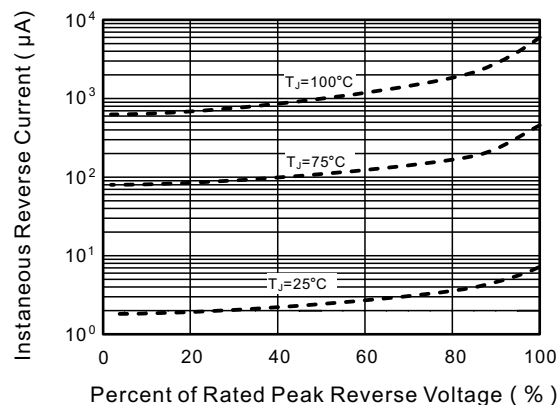


Fig.3 Typical Forward Characteristic

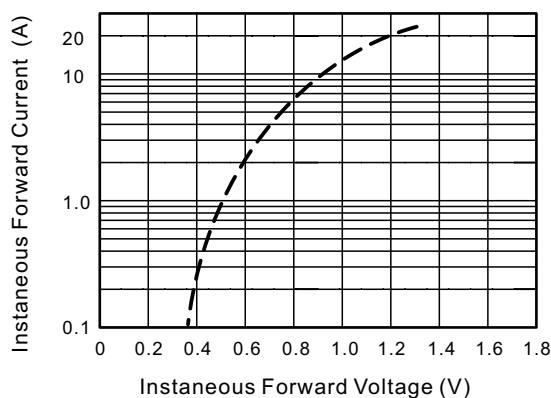


Fig.4 Typical Junction Capacitance

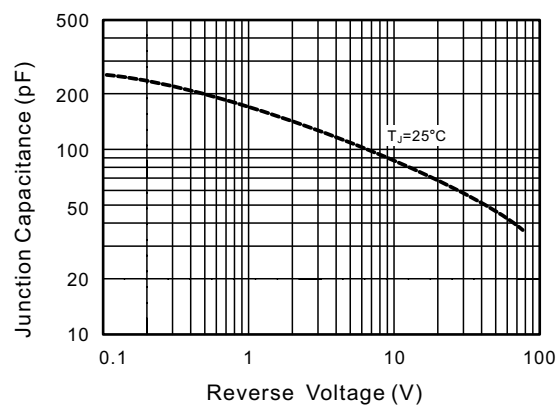


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

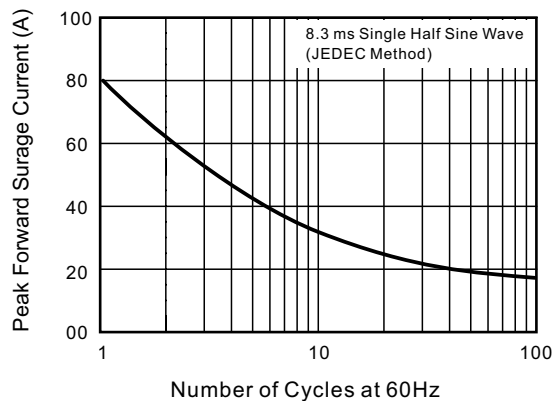
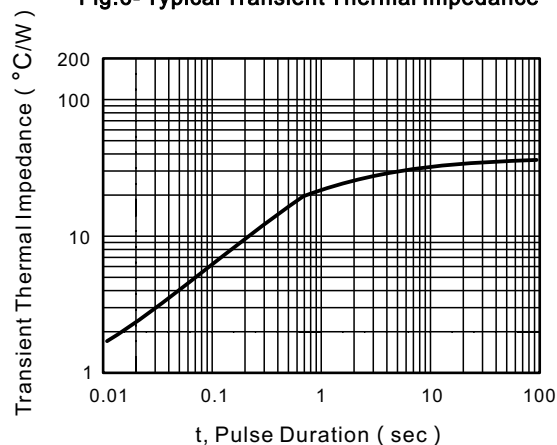
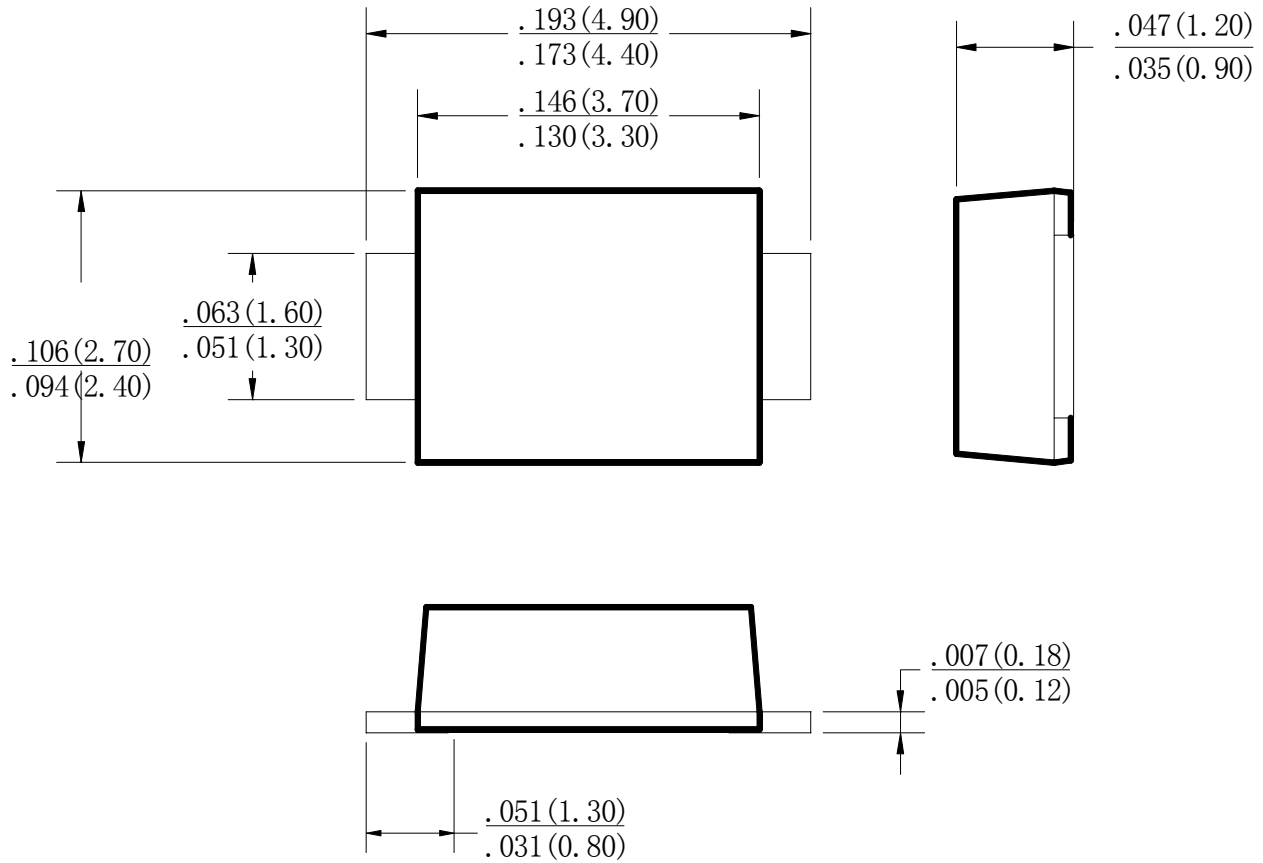


Fig.6- Typical Transient Thermal Impedance





Package Outline Dimensions
SMAF



Dimensions in inches and (millimeters)



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