



Features

- Average Forward Current: $I_{F(AV)} = 1A$
- Polarity: Color band denotes cathode



SMAF

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|---------------|------|---------|----------|
| RB168LAM-40TR | SMAF | R16SN | 3000 |



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

| Type Number | Limit | Unit |
|---|------------|------|
| Maximum Recurrent Peak Reverse Voltage | 40 | V |
| Maximum RMS Voltage | 28 | V |
| Maximum DC Blocking Voltage | 40 | V |
| Maximum Average Forward Rectified Current See Fig. 1 | 1.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 30 | A |
| Maximum Instantaneous Forward Voltage at 2.0A | 0.55 | V |
| Maximum DC Reverse Current Ta=25°C | 0.2 | mA |
| at Rated DC Blocking Voltage Ta=100°C | 10 | mA |
| Typical Junction Capacitance (Note1) | 110 | pF |
| Typical Thermal Resistance R _{JA} (Note 2) | 50 | °C/W |
| Operating junction Temperature Range T _J | -65 — +150 | °C |
| Storage Temperature Range T _{STG} | -65 — +150 | °C |

NOTES:

- Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- Thermal Resistance Junction to Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

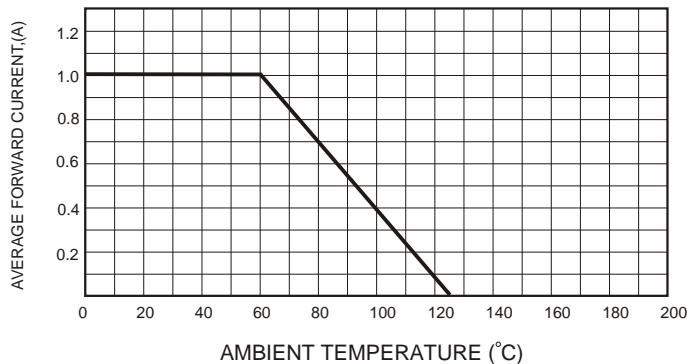


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

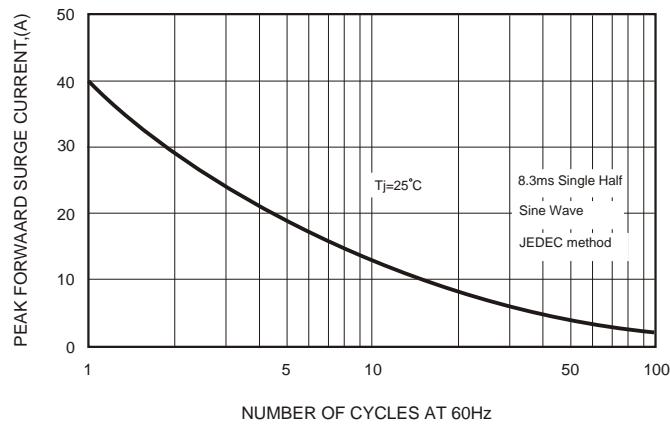


FIG.4-TYPICAL JUNCTION CAPACITANCE

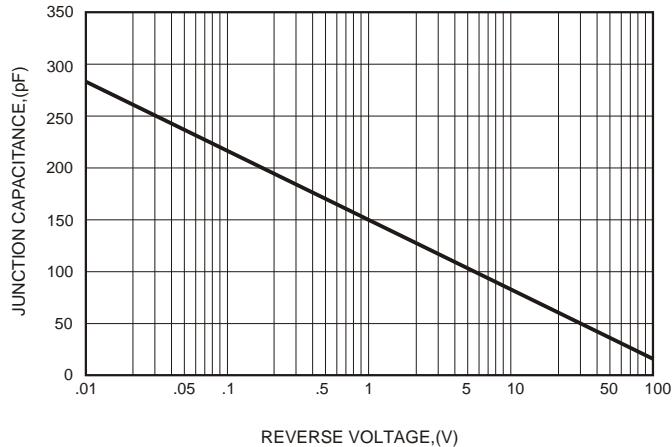


FIG.2-TYPICAL FORWARD CHARACTERISTICS

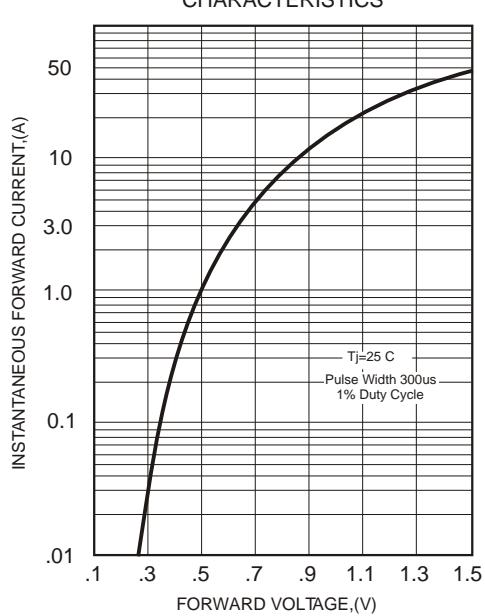
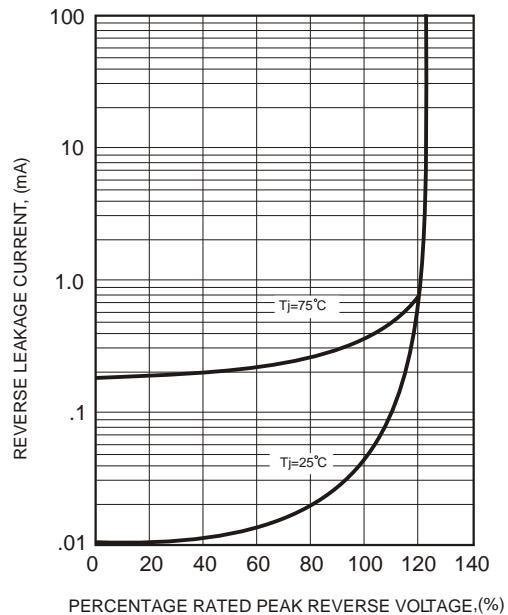
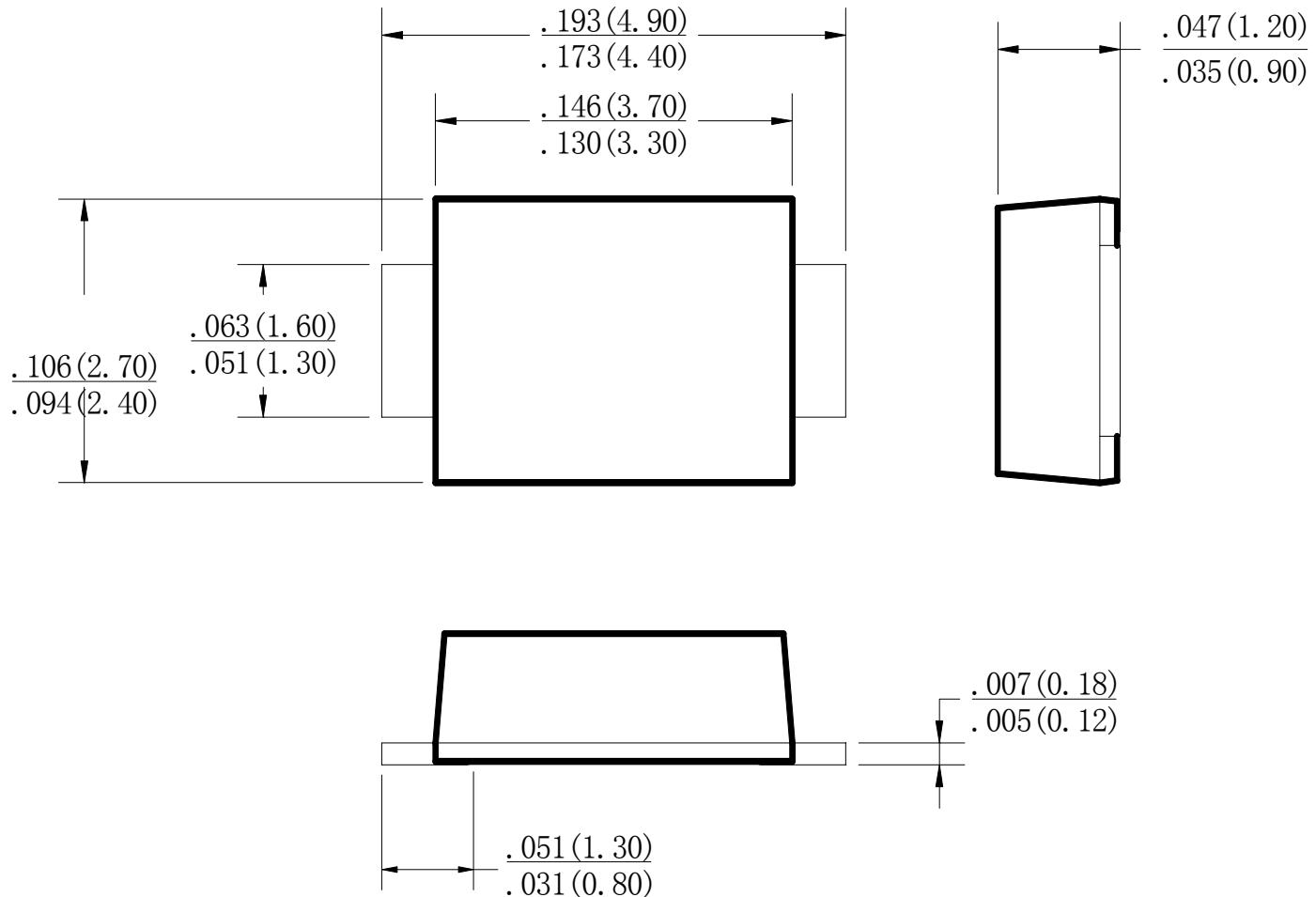


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SMAF Package Outline Dimensions





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