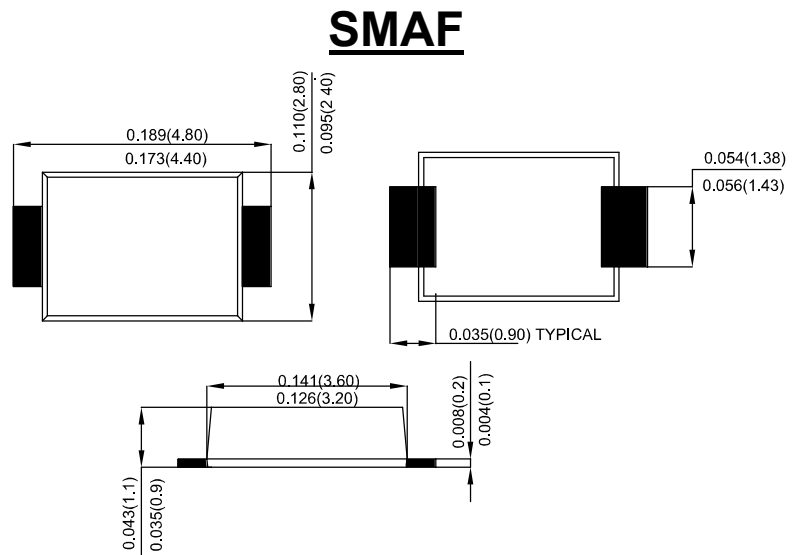


Features

- Fast switching for high efficiency
- Low Power Loss,High Efficiency
- High current capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SMAF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity:Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

| Type Number | SYMBOL | R1AU | R1BU | R1DU | R1GU | R1JU | R1KU | R1MU | Unit |
|--|-----------------|-------------|------|------|------|------|------|------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Average Rectified Output Current @ $T_L=100^\circ\text{C}$ | I_o | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 35 | | | | | | | A |
| Forward Voltage @ $I_F=1.0\text{A}$ | V_{FM} | 1.3 | | | | | | | V |
| Peak Reverse Current @ $T_A=25^\circ\text{C}$ | I_R | 5.0 | | | | | | | uA |
| At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$ | | 150 | | | | | | | |
| Maximum Reverse Recovery Time (Note 1) | T_{rr} | 150 | | | 250 | 500 | | ns | |
| Typical Junction Capacitance (Note 2) | C_J | 12 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 3) | $R_{\theta JA}$ | 100 | | | | | | | $^\circ\text{C/W}$ |
| | $R_{\theta JL}$ | 32 | | | | | | | |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

Note: 1.Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. 8.0mm² (.013mm thick) land areas.

