



Surface Mount Schottky Barrier Rectifiers
Voltage 200Volts Current 3.0Amperes

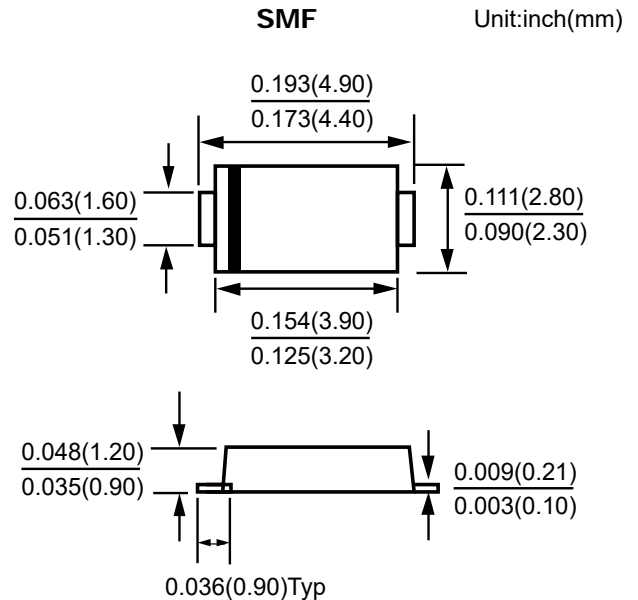


FEATURES

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- AEC-Q101 qualified

MECHANICAL DATA

- Case : SMF
- Terminals : Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity : Color band denotes cathode end
- Mounting Position : Any



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

| Parameter | Symbol | S320-A | Unit |
|---|-----------------|-------------|------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 200 | V |
| Maximum RMS Voltage | V_{RMS} | 140 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | V |
| Maximum Average Forward Rectified Current | I_F | 3 | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load | I_{FSM} | 80 | A |
| Maximum Instantaneous Forward Voltage $I_F=3A @ 25^{\circ}C$ | V_F | 0.92 | V |
| Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C | I_R | 0.2 5 | mA |
| Typical Junction Capacitance (NOTE 1) | C_J | 70 | pF |
| Typical Thermal Resistance | $R_{\theta JC}$ | 30 | °C/W |
| Operating Temperature Range | T_J | -55 to +150 | °C |
| Storage Temperature Range | T_{STG} | -55 to +150 | °C |

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

DEVICE CHARACTERISTICS

S320-A

FIG. 1-Typical Forward Current Derating Curve

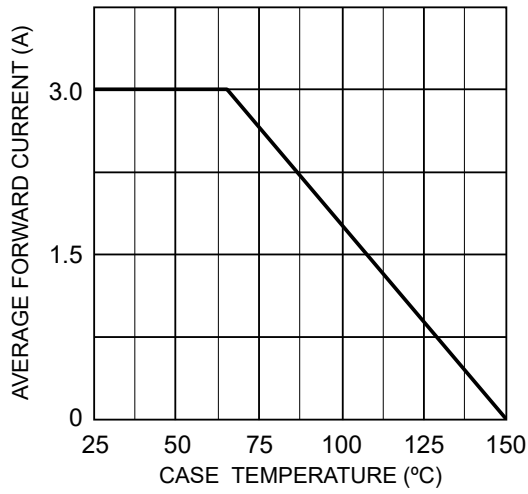


FIG. 2-Typical Forward Characteristics

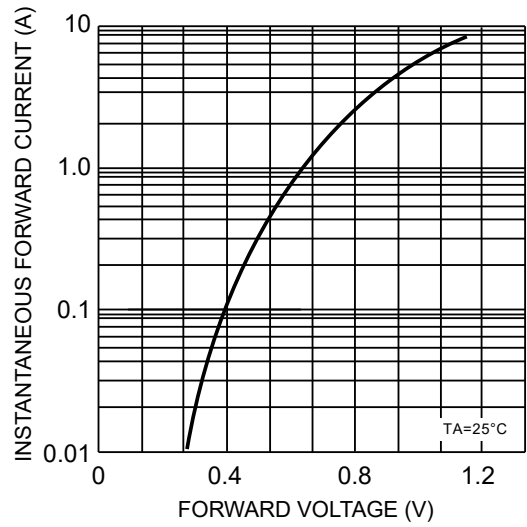


FIG. 3-Maximum Non-Repetitive Forward Surge Current

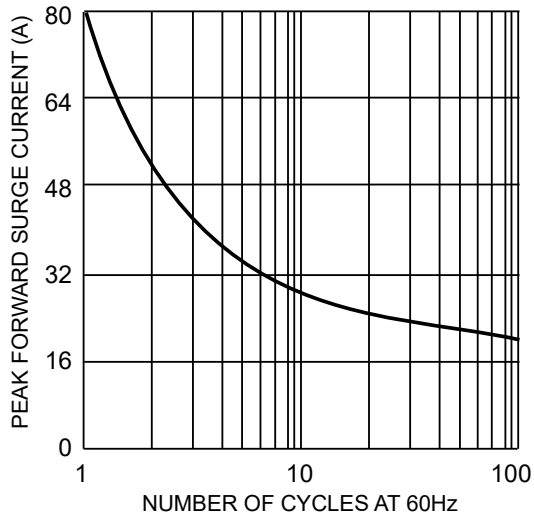


FIG. 4-Typical Reverse Characteristics

