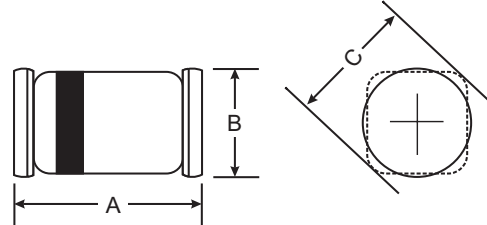


Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Fits on SOD323/SOT23 Footprint



Mechanical Data

- Case: MicroMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.012 grams (approx.)

| MicroMELF | | |
|----------------------|----------------------------|------|
| Dim | Min | Max |
| A | 1.8 | 2.0 |
| B | 1.20 | 1.25 |
| C | 1.35 \varnothing Typical | |
| All Dimensions in mm | | |

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|---------------------------------|-------------|------------------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 100 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 75 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 53 | V |
| Forward Continuous Current (Note 1) | I_{FM} | 200 | mA |
| Average Rectified Output Current (Note 1) | I_O | 100 | mA |
| Non-Repetitive Peak Forward Surge Current @ $t = 1.0\mu\text{s}$ | I_{FSM} | 2.0 | A |
| Power Dissipation | P_d | 500 | mW |
| Thermal Resistance Junction to Ambient Air (Note 1) | $R_{\theta JA}$ | 300 | K/W |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to +175 | $^\circ\text{C}$ |

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Min | Max | Unit | Test Condition |
|------------------------------|----------|-----|-----------------|--------------------------------------|---|
| Maximum Forward Voltage | V_{FM} | — | 1.0 | V | $I_F = 50\text{mA}$ |
| Maximum Peak Reverse Current | I_{RM} | — | 25 50 5.0 | nA μA μA | $V_R = 20\text{V}$ $V_R = 20\text{V}, T_J = 150^\circ\text{C}$ $V_R = 75\text{V}$ |
| Junction Capacitance | C_j | — | 4.0 | pF | $V_R = 0, f = 1.0\text{MHz}$ |
| Reverse Recovery Time | t_{rr} | — | 4.0 | ns | $I_F = I_R = 10\text{mA}, V_R = 6\text{V}, R_L = 100\Omega$ |

Notes: 1. Valid provided that electrodes are kept at ambient temperature.

