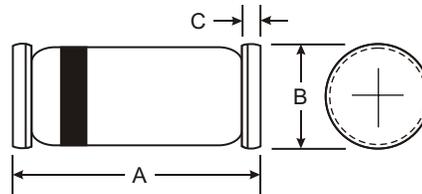


Features

- High Reverse Breakdown Voltage
- Low Turn-On Voltage
- Guard Ring Construction for Transient Protection

Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Cathode Band Only
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)



| MiniMELF | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 3.30 | 3.70 |
| B | 1.30 | 1.60 |
| C | 0.28 | 0.50 |
| All Dimensions in mm | | |

Maximum Ratings @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | LL46 | Unit |
|------------------------------------------------------|-----------------------------------|-------------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 100 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| Forward Continuous Current (Note 1) | I _{FM} | 150 | mA |
| Average Rectified Output Current (Note 1) | I _O | 75 | mA |
| Repetitive Peak Forward Current (Note 1) @ t ≤ 1.0s | I _{FRM} | 350 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 10ms | I _{FSM} | 750 | mA |
| Power Dissipation (Note 1) | P _d | 200 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 1) | R _{θJA} | 500 | K/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to +125 | °C |

Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Min | Typ | Max | Unit | Test Condition |
|----------------------------------|--------------------|-----|-----------|----------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reverse Breakdown Voltage | V _{(BR)R} | 100 | — | — | V | I _{RS} = 10μA (pulses) |
| Reverse Leakage Current (Note 2) | I _R | — | — | 0.5 5.0 0.8 7.5 2.0 15 5.0 20 | μA | V _R = 1.5V V _R = 1.5V, T _j = 60°C V _R = 10V V _R = 10V, T _j = 60°C V _R = 50V V _R = 50V, T _j = 60°C V _R = 75V V _R = 75V, T _j = 60°C |
| Forward Voltage Drop (Note 2) | V _F | — | — | 0.25 0.45 1.00 | V | I _F = 0.1mA I _F = 10mA I _F = 250mA |
| Junction Capacitance | C _j | — | 10 6.0 | — | pF | V _R = 0V, f = 1.0MHz V _R = 1.0V, f = 1.0MHz |

- Notes: 1. Valid provided that electrodes are kept at ambient temperature.
2. t < 300μs, Duty Cycle < 2%.