

DLM4148 AND DLM4448

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE RANGE - 100 Volts

CURRENT - 0.15 Ampere

FEATURES

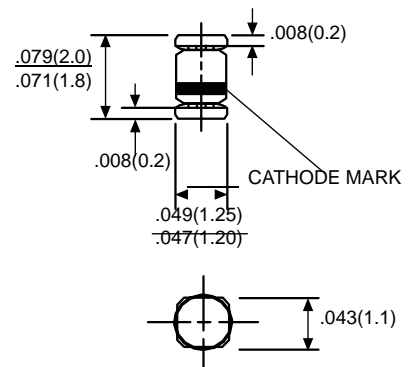
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High speed switching
- * High current capability
- * High reliability

MECHANICAL DATA

- * Case: Glass sealed case Micro Melf
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 grams Approx.



Micro Melf



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| | SYMBOL | DLM4148 | DLM4448 | UNITS |
|---|----------------------------------|--------------|--------------------------|-------|
| Maximum Reverse Voltage | V _R | 75 | | V |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 100 | | V |
| Maximum Average Rectified Current | I _o | 150 | | mA |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 0.5 | | A |
| Maximum Power Dissipation T _{amb} =25°C | P _{tot} | 500 | | mW |
| Maximum Forward Voltage | V _F | 1.0 / 10mA | 0.72 / 5mA 1.0 / 10mA | V |
| Maximum Reverse Current at Rated DC Blocking Voltage @ T _A =25°C | I _R | 5.0 | | µA |
| Maximum Reverse Recovery Time(Note 1) | t _{rr} | 4.0 | | ns |
| Typical Junction Capacitance(Note 2) | C _J | 4.0 | | pF |
| Operating and Storage Temperature Range | T _J ,T _{STG} | -55 to + 125 | | °C |

Note: 1. Test conditions: I_F=I_R=10mA, R_L=100Ω, measured at I_R=1mA
2. Measured at 1MHz and V_R=0

RATING AND CHARACTERISTIC CURVES (DLM4148 AND DLM4448)

REF: DLM4148

A Admissible repetitive peak forward current versus pulse duration

