DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

DLM4148
DLM4448

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE RANGE - 100 Volts *CURRENT - 0.15 Ampere*

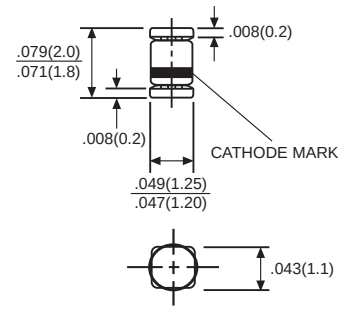
FEATURES

* 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%.

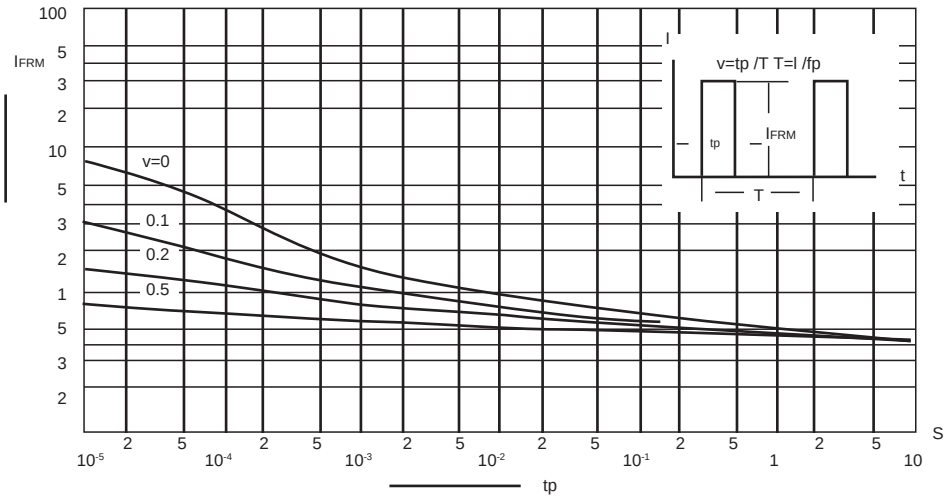
	SYMBOL	DLM4148	DLM4448	UNITS
Maximum Reverse Voltage	V_R	75		V
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100		V
Maximum Average Rectified Current	Io	150		mA
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	0.5		A
Maximum Power Dissipation Tamb=25°C	Ptot	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)	trr	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

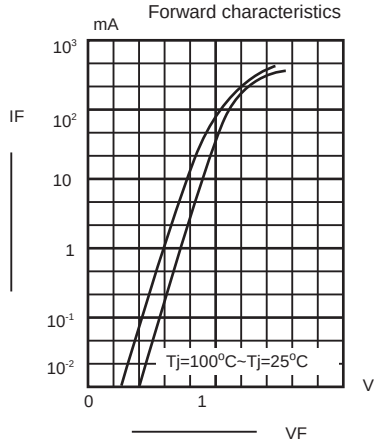
RATING AND CHARACTERISTIC CURVES (DLM4148 AND DLM4448)

REF: DLM4148

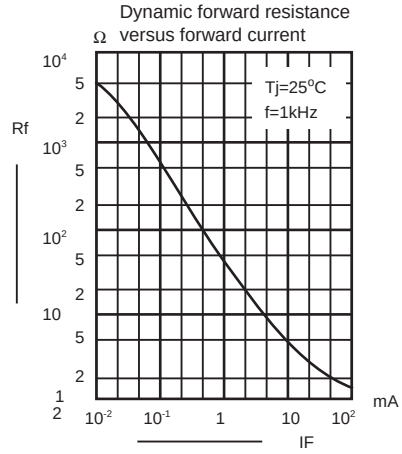
Admissible repetitive peak forward current versus pulse duration



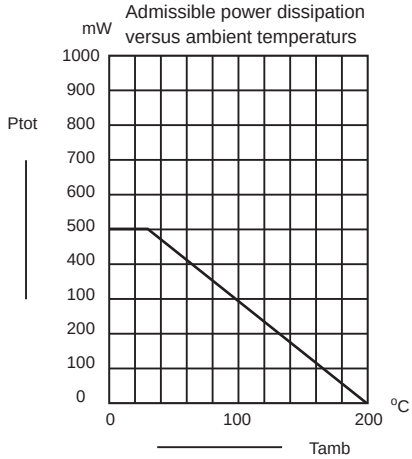
Forward characteristics



Dynamic forward resistance versus forward current



Admissible power dissipation versus ambient temperatures



Relative capacitance versus reverse voltage