



# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

DLM4148  
DLM4448

### TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE RANGE - 100 Volts

CURRENT - 0.15 Ampere

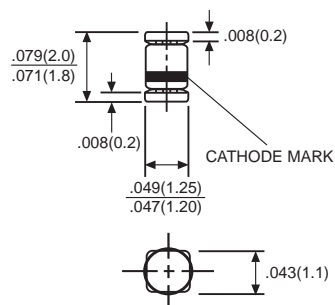
#### FEATURES

- \* 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	$I_o$		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 $T_{amb}=25^{\circ}C$	$P_{tot}$		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 @ $T_A=25^{\circ}C$	$I_R$		5.0	$\mu A$
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	$^{\circ}C$

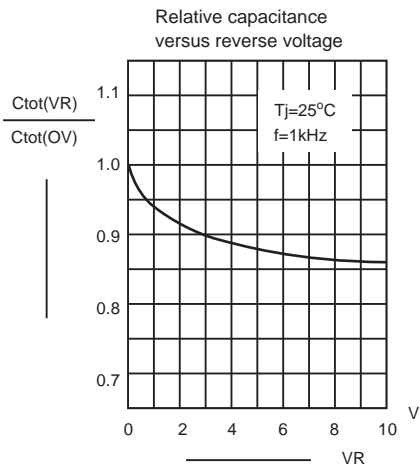
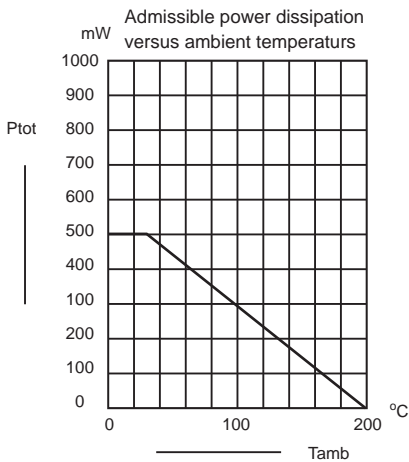
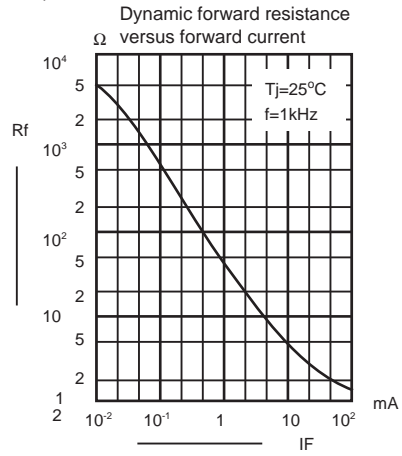
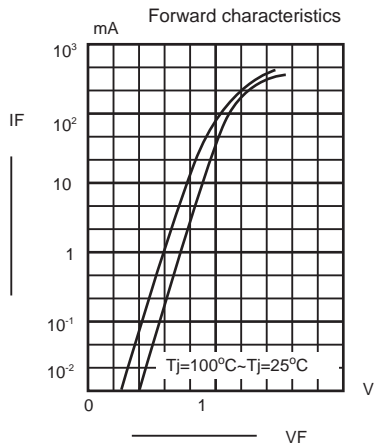
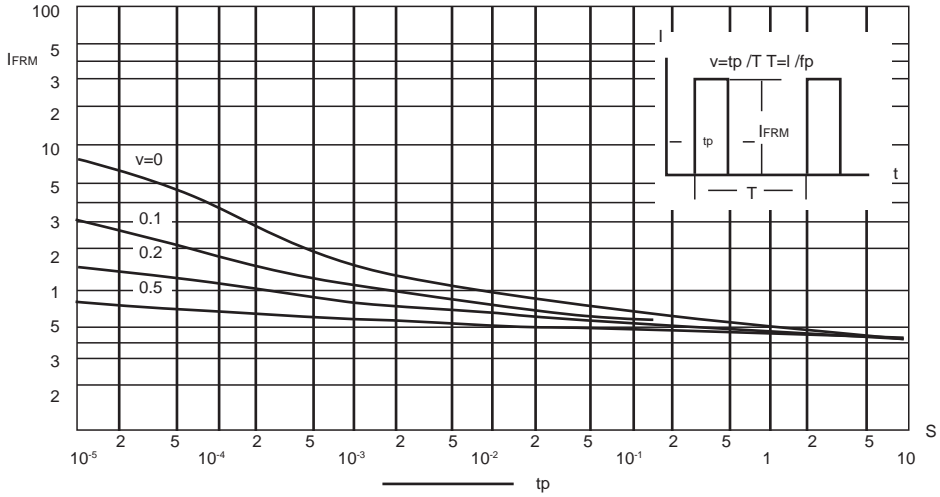
Note: 1. Test conditions:  $I_F=I_R=10mA$ ,  $R_L=100\Omega$ , measured at  $I_R=1mA$

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



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