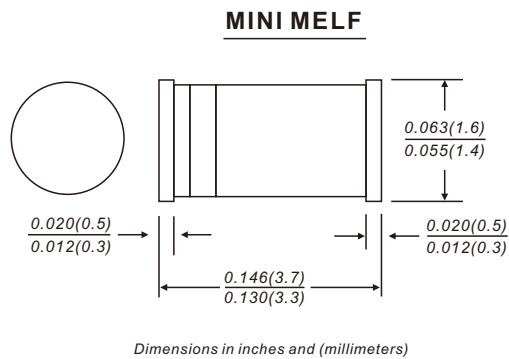




LL4148/LL4448

SWITCHING DIODE



FEATURES

- Fast Switching Device (TRR <4.0 nS)
- Power Dissipation of 500mW
- High Stability and High Reliability
- Low reverse leakage

MECHANICAL DATA

Case: MINI MELF Glass Case

Polarity: Color band denotes cathode end

Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Power Dissipation	P _d	500	mW
Operating junction temperature	T _j	175	°C
Storage temperature range	T _s	-65-+200	°C
Working Inverse Voltage	W _{IV}	75	V
Average Rectified Current	I _o	150	mA
Non-repetitive Peak Forward Current	I _{FM}	450	mA
Peak Forward Surge Current @tp=1s; TA=25°C	I _{FSM}	2.0	A

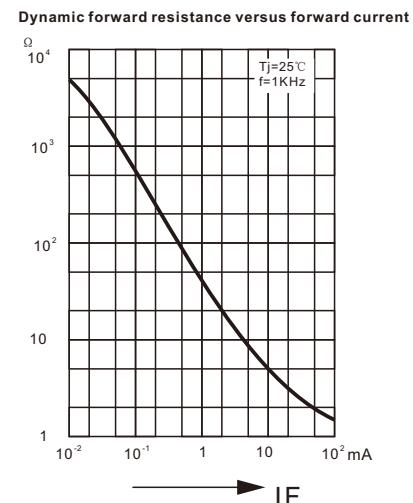
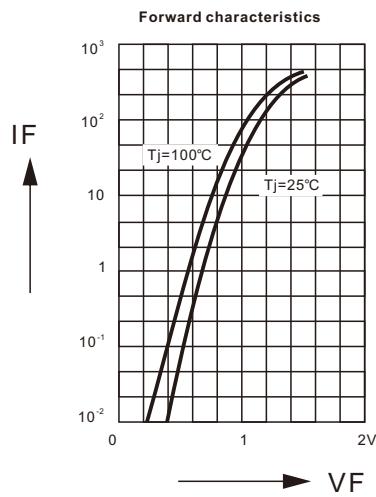
Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

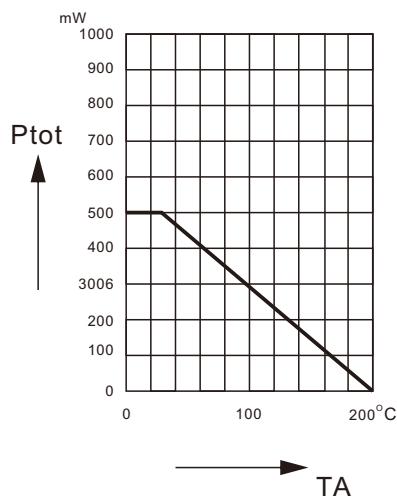
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
B _V	Breakdown Voltage	I _R =100uA I _R =5uA	100 75		V
I _R	Reverse Leakage Current	V _R =20V V _R =75	---	25 5	nA uA
V _F	Forward Voltage LL4448 LL4148 LL4448	I _F =10mA I _F =5mA I _F =100mA	0.62 --- ---	0.72 1 1	V
T _{RR}	Reverse Recovery Time	I _F = 10mA, I _R =1.0mA R _L =100Ω I _{RR} =1mA	---	4	nS
C	Capacitance	V _R =0V, f=1MHZ	---	4	pF



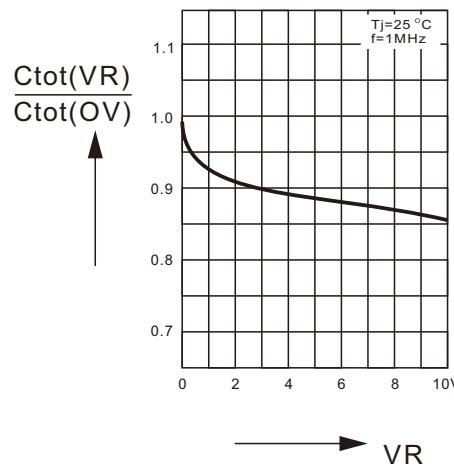
RATINGS AND CHARACTERISTIC CURVES LL4148/LL4448



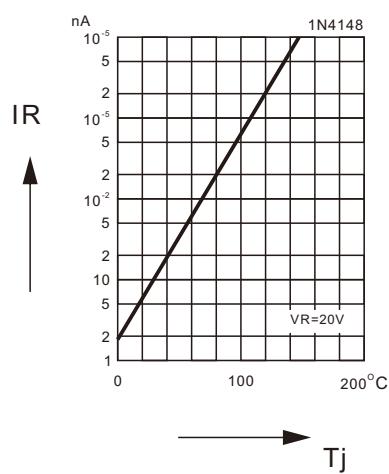
Admissible power dissipation versus ambient temperature
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



Relative capacitance versus reverse voltage



Leakage current versus junction temperature



Admissible repetitive peak forward current versus pulse duration
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature

