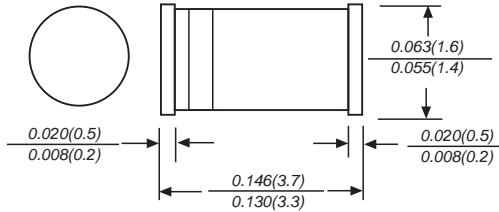


LL4448

SWITCHING DIODE

MINI MELF



Dimensions in inches and (millimeters)

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 ambient temperature unless otherwise specified.)

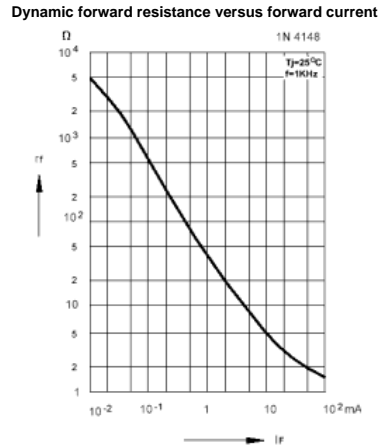
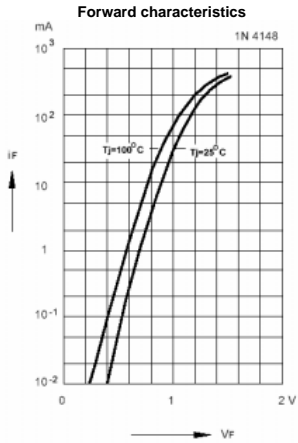
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	P_d	500	mW
Operating junction temperature	T_j	175	
Storage temperature range	T_s	-65-+200	
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_o	150	mA
Non-repetitive Peak Forward Current	I_{FM}	450	mA
Peak Forward Surge Current @ $t_p=1s$; $T_A=25$	I_{FSM}	2.0	A

Valid provided that electrodes are kept at ambient temperature.

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

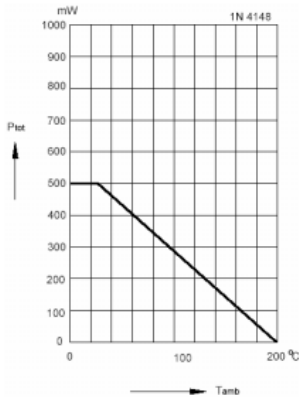
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	$I_R=100\mu A$ $I_R=5\mu A$	100 75		V
IR	Reverse Leakage Current	$V_R=20V$ $V_R=75$	---	25 5	nA uA
VF	Forward Voltage	LL4448 $I_F=5mA$ LL4148 $I_F=10mA$ LL4448 $I_F=100mA$	0.62 ---	0.72 1 1	V
TRR	Reverse Recovery Time	$I_F=10mA$, $I_R=1.0mA$ $R_L=100\Omega$ $I_{RR}=1mA$	---	4	nS
C	Capacitance	$V_R=0V$, $f=1MHz$	---	4	pF

RATINGS AND CHARACTERISTIC CURVES LL4448

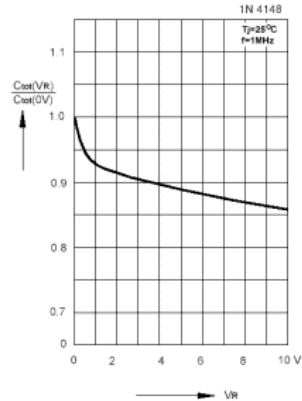


Admissible power dissipation versus ambient temperature

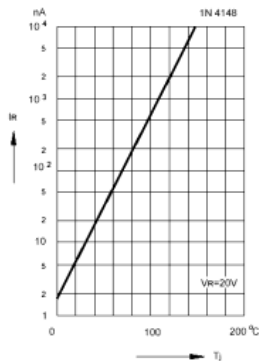
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



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

