

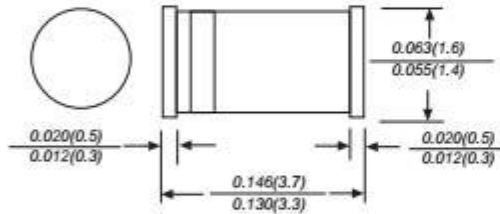
LL4148/LL4448

SWITCHING DIODE



JUXINTONG

MINI MELF



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

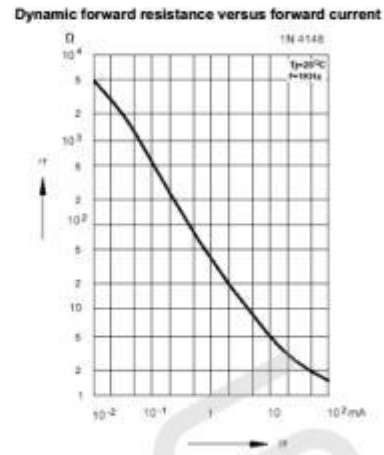
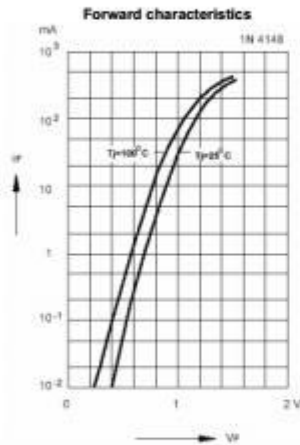
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)			
Parameters	Symbol	Value	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Power Dissipation	P _d	500	mW
Operating junction temperature	T _j	150	°C
Storage temperature range	T _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 @t _p =1s; T _A =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).

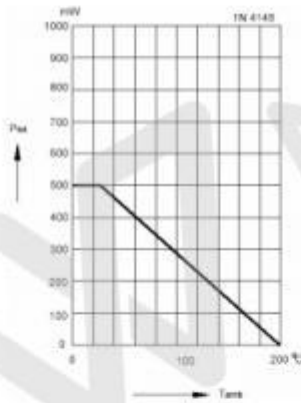
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100uA IR=5uA	100 75		V
IR	Reverse Leakage Current	VR=20V VR=75	---	25 5	nA uA
VF	Forward Voltage	IF=5mA IF=10mA IF=100mA	0.62 ---	0.72 1 1	V
TRR	Reverse Recovery Time	IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance	VR=0V, f=1MHZ	---	4	pF

RATINGS AND CHARACTERISTIC CURVES LL4148/LL4448

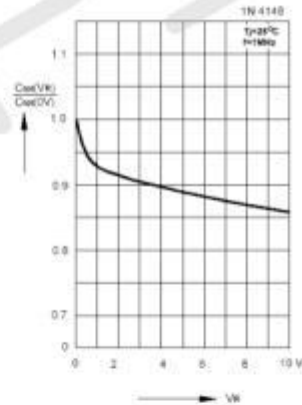


Admissible power dissipation versus ambient temperature

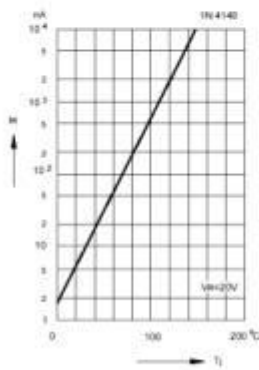
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



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

