LL4148

MINI MELF SWITCHING DIODES

Reverse Voltage - 100 Volts   Forward Current - 0.15 Ampere

CY Diodes

MINI MELF

0.063(1.6)
0.055(1.4)

0.020(0.5)
0.012(0.3)

0.020(0.5)
0.012(0.3)

0.146(3.7)
0.130(3.3)
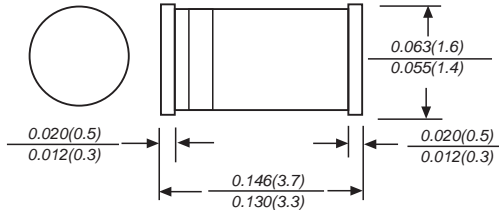
Dimensions in inches and (millimeters)

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

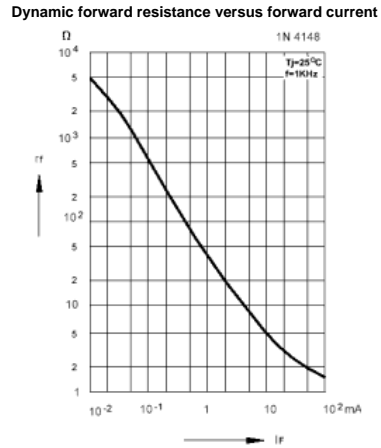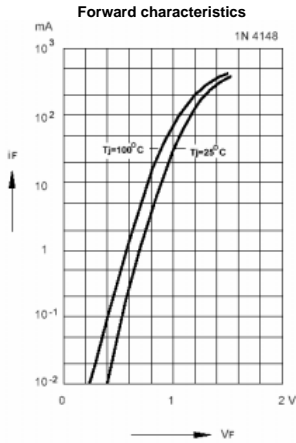**Maximum Ratings & Thermal Characteristics** (Ratings at 25 ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	Pd	500	mW
Operating junction temperature	Tj	175	
Storage temperature range	Ts	-65-+200	
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	Io	150	mA
Non-repetitive Peak Forward Current	I_{FM}	450	mA
Peak Forward Surge Current @tp=1s; TA=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	
B_V	Breakdown Voltage		IR=100uA IR=5uA	100 75		V
I_R	Reverse Leakage Current		VR=20V VR=75	--- ---	25 5	nA uA
V_F	Forward Voltage	LL4448 LL4148 LL4448	IF=5mA IF=10mA IF=100mA	0.62 --- ---	0.72 1 1	V
T_{RR}	Reverse Recovery Time		IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance		VR=0V, f=1MHZ	---	4	pF

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RATINGS AND CHARACTERISTIC CURVES LL4148

Forward characteristics

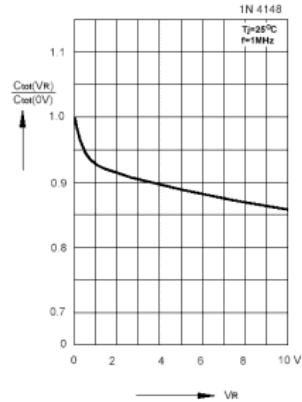**Dynamic forward resistance versus forward current**

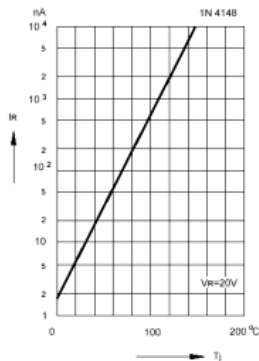**Admissible power dissipation versus ambient temperature**

Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature
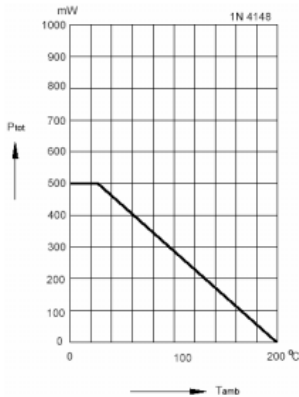
Relative capacitance versus reverse voltage

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

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