迪一電子®

LL4148/LL4448

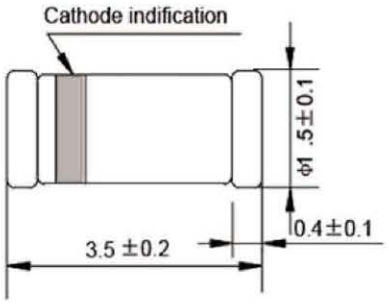
LL-34(Mini-melf) Glass Switching Diode

Features

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

Mechanical Data

- LL-34 Glass Case
- Polarity: Color band denotes cathode end
- Mounting Position: Any



LL-34(SOD-80) Dimensions in millimeters

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

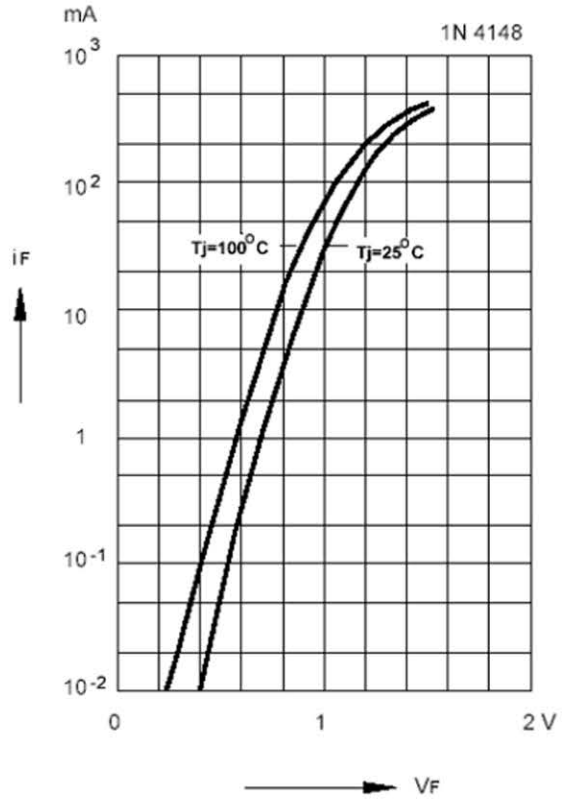
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	Pd	500	mW
Operating junction temperature	Tj	175	℃
Storage temperature range	Ts	-65-+200	℃
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_O	150	mA
Non-repetitive Peak Forward Current	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.

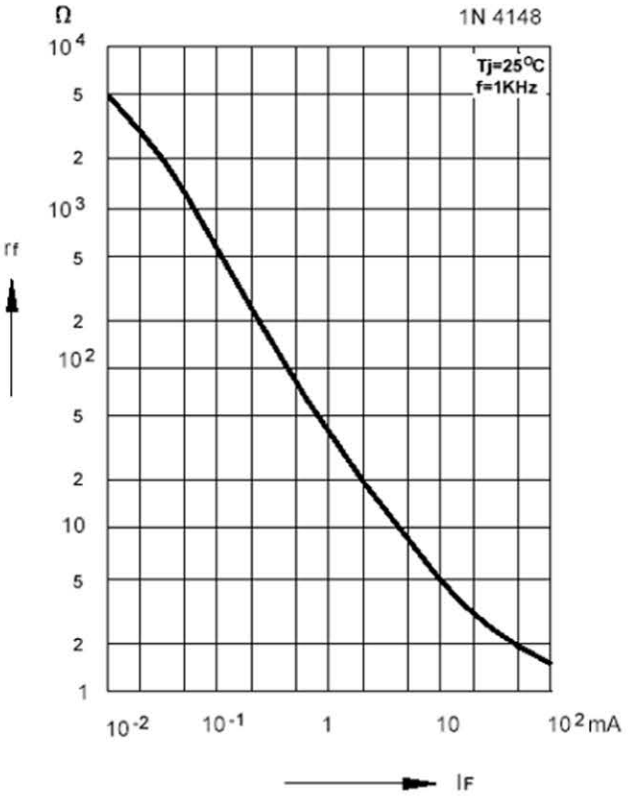
Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

Symbols	Parameter		Test Condition	Limits		Unit
				Min	Max	
B_V	Breakdown Voltage		IR=100uA	100		V
			IR=5uA	75		
I_R	Reverse Leakage Current		VR=20V	---	25	nA
			VR=75	---	5	uA
V_F	Forward Voltage	LL4448	IF=5mA	0.62	0.72	V
		LL4148	IF=10mA	---	1	
		LL4448	IF=100mA	---	1	
T_{RR}	Reverse Recovery Time		IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance		VR=0V, f=1MHZ	---	4	pF

Forward characteristics

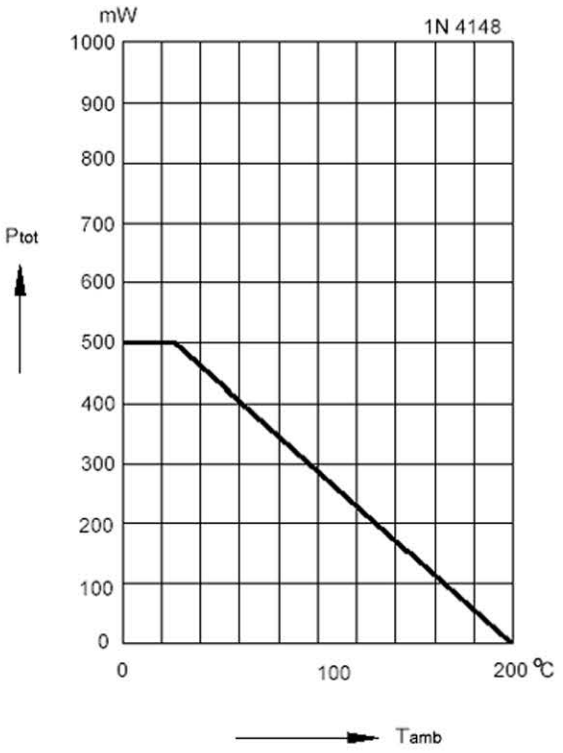


Dynamic forward resistance versus forward current

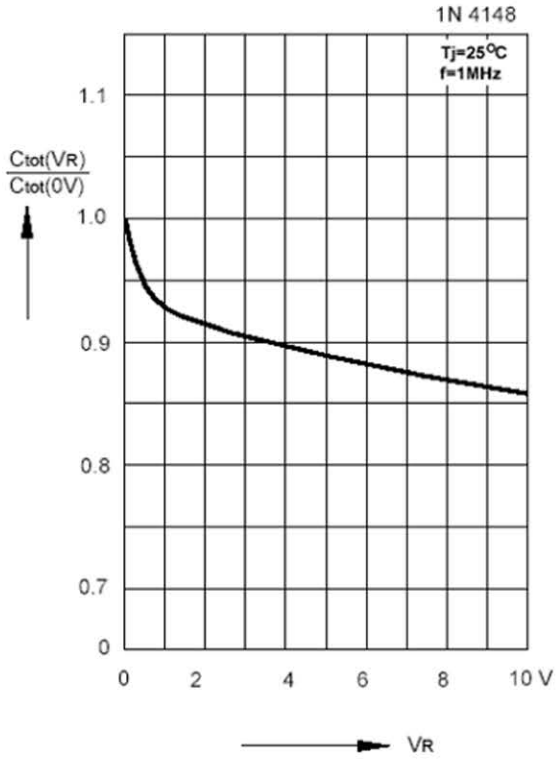


Admissible power dissipation versus ambient temperature

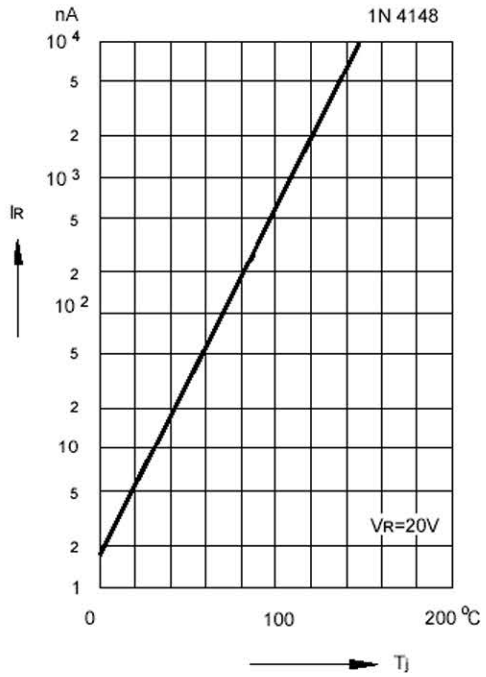
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



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