

LL4148

Features

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

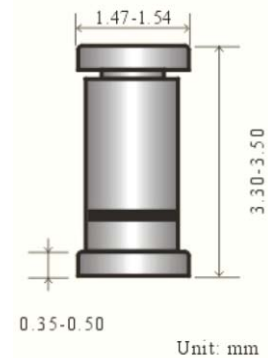
Mechanical Data

Case: LL-34 Glass Case

Polarity: Color band denotes cathode end

Mounting position: Any

LL-34 GLASS



Maximum Ratings & Thermal Characteristics

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

Parameters	Symbol	Vale	Unit
Reverse Voltage	VR	75	V
Peak Reverse Voltage	V _{RM}	100	V
Power Dissipation	P _d	500 ¹⁾	mW
Operating junction temperature	T _j	175	°C
Storage temperature range	T _s	-55-+175	°C
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.

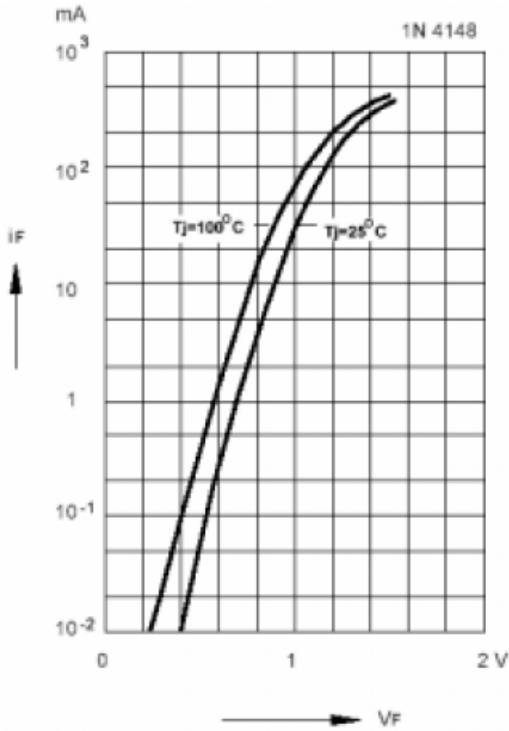
Electrical Characteristics

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

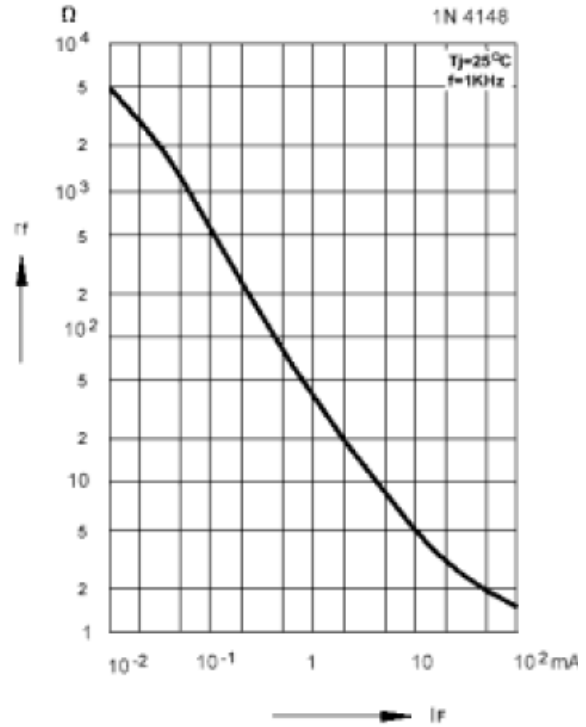
Symbols	Parameters	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100 uA IR=5uA	100 75		V
IR	Reverse Leakage Current	VR=20V VR=75 VR=20, T _j =150°C	--- --- ---	25 5 50	nA uA uA
VF	Forward Voltage	IF=10mA	---	1	V
TRR	Reverse Recovery Time	IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance	VR=0V, f=1MHZ	---	4	pF

Characteristic Curves

Forward characteristics

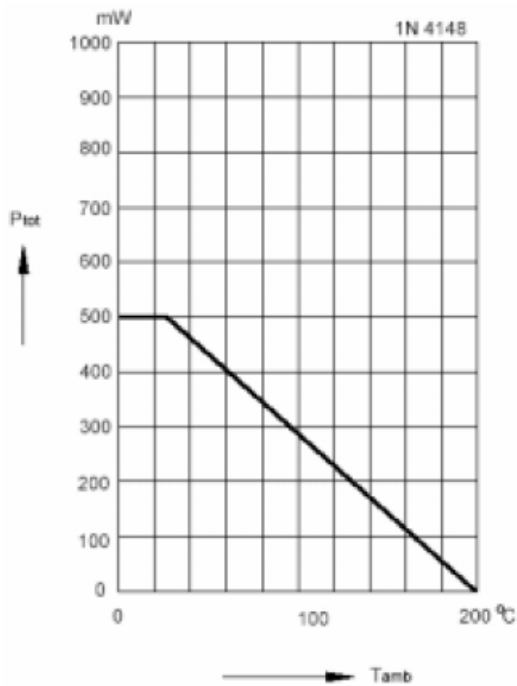


Dynamic forward resistance versus forward current



Admissible power dissipation versus ambient temperature

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



Relative capacitance versus reverse voltage

