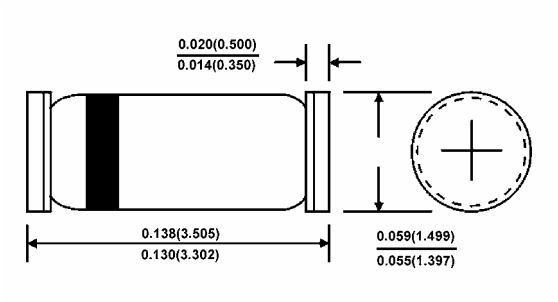
LL4448 /LL4148/LL914B

500mW Hermetically Sealed Glass Fast Switching Diodes

MINI MELF



Dimensions in inches and (millimeters)

Features

- ✧ Fast switching device (T_{RR}< 4.0nS)
- ✧ LL-34(Mini-MELF) package
- ✧ Surface device type mounting
- ✧ Hermetically sealed glass
- ✧ Compression bonded construction
- ✧ All external surfaces are corrosion resistant and terminals are readily solderable
- ✧ RoHS compliant
- ✧ Matte Tin (Sn) lead finish
- ✧ Blue color band indicates negative polarity

Maximum Ratings and Electrical Characteristics

Rating at 25°Cambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	Pd	500	mW
Working Inverse Voltage	WIV	75	V
Non-repetitive Peak Forward Current	IFM	450	mA
Average Rectified Current	Io	150	mA
Peak Forward Surge Current	I_{FSURGE}	2	A
Operating Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to + 200	°C

Electrical Characteristics

Type Number		Symbol	Min	Max	Units
Breakdown Voltage	IR=100uA IR=5uA	B_V	100 75		V
Forward Voltage LL4448, LL914B LL4148 LL4448, LL914B	IF=5.0mA IF= 10mA IF =100mA	VF	0.62 -	0.72 1.0 1.0	V
Reverse Leakage Current	VR=20V VR=75V	IR		25 5	nA uA
Junction Capacitance	VR=0, f=1.0MHz	Cj	-	4.0	pF
Reverse Recovery Time (Note 1)		trr	-	4.0	nS

Notes: 1. Reverse Recovery Test Conditions: I_F=10mA, VR=6V, R_L=100Ω, I_{RR}=1mA

Version: B07

RATINGS AND CHARACTERISTIC CURVES **(LL4448/LL4148/LL914B)**

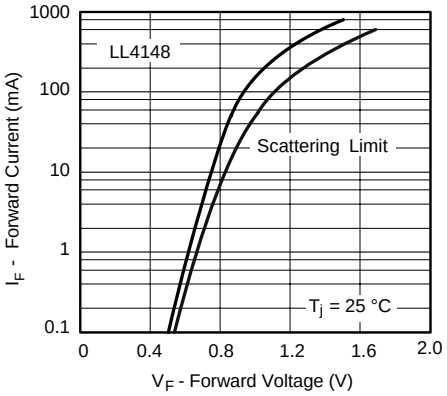


Figure 1. Forward Current vs. Forward Voltage

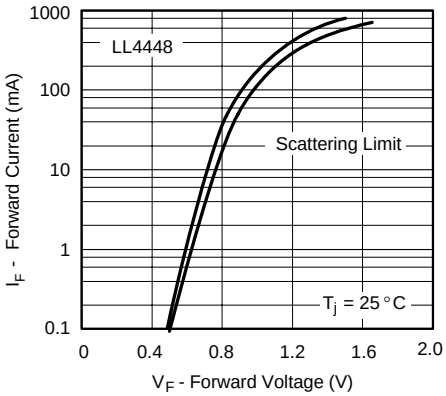


Figure 2. Forward Current vs. Forward Voltage

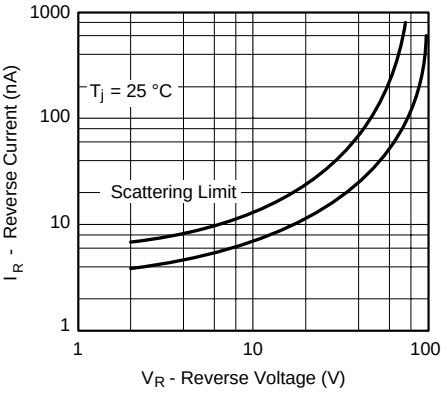


Figure 3. Reverse Current vs. Reverse Voltage

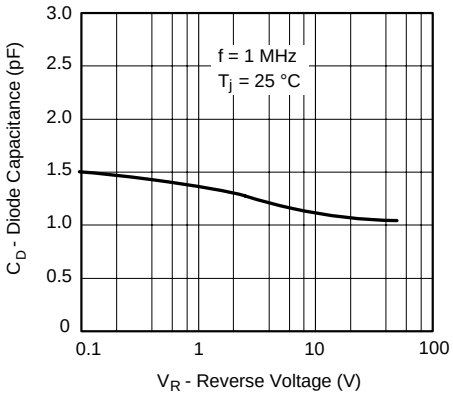


Figure 4. Diode Capacitance vs. Reverse Voltage