

LL4148/LL4448/LL914B

LL4148/LL4448/LL914B Hermetically Sealed Glass Fast Switching Diodes

General description

Hermetically Sealed Glass Fast Switching Diodes

FEATURES

- Fast Switching Device (TRR <4.0 nS)
- 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) Terminal Finish
- Color band Indicates Negative Polarity



SURFACE MOUNT

LL-34

DEVICE MARKING CODE:



Cathode Band Color : Black



ELECTRICAL SYMBOL

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	100		Volts
		$I_R=5\mu\text{A}$	75		
I_R	Reverse Leakage Current	$V_R=20\text{V}$		25	nA
		$V_R=75\text{V}$		5	μA
V_F	Forward Voltage	LL4448, LL914B $I_F=5\text{mA}$		0.72	Volts
		LL4148 $I_F=10\text{mA}$	0.62	1.0	
		LL4448, LL914B $I_F=100\text{mA}$		1.0	
T_{RR}	Reverse Recovery Time	$I_F=10\text{mA}, V_R=6\text{V}$ $R_L=100\Omega$ $I_{RR}=1\text{mA}$		4	nS
C	Capacitance	$V_R=0\text{V}, f=1\text{MHz}$		4	pF

Typical Characteristics

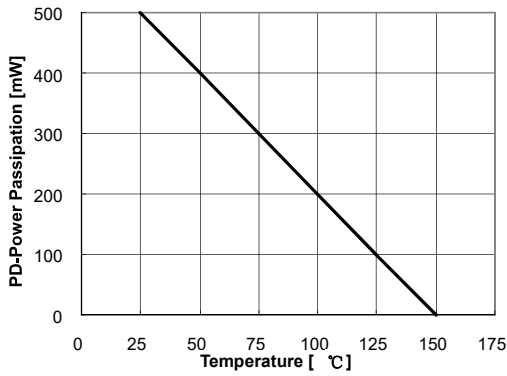


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

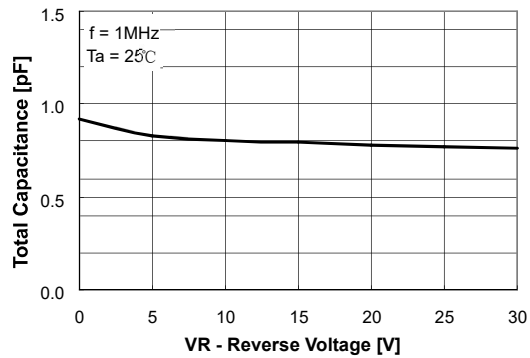


Figure 2. Total Capacitance

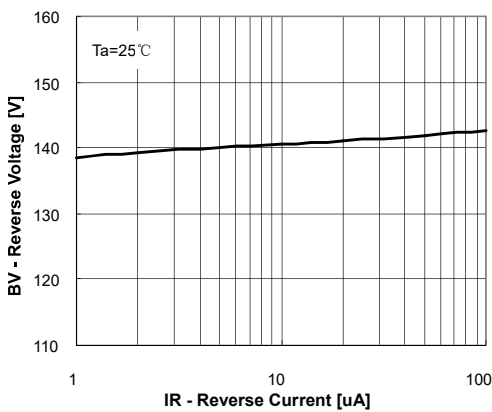


Figure 3. Reverse Voltage vs Reverse Current
BV – 1.0uA to 100uA

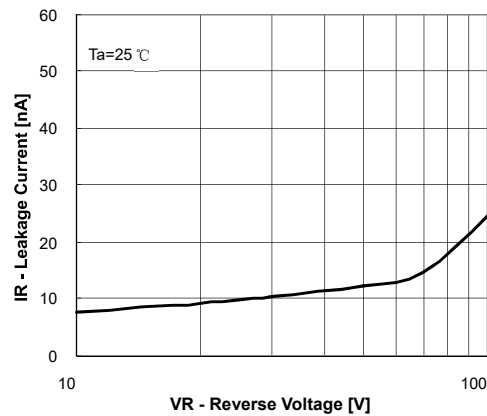


Figure 4. Reverse Current vs Reverse Voltage
IR – 10V to 100V

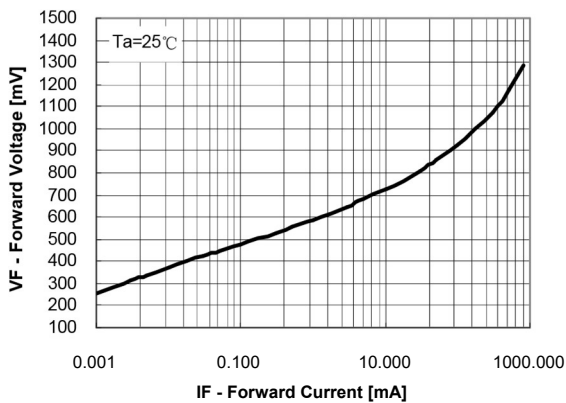


Figure 5. Forward Voltage vs Forward Current
VF – 0.001mA to 800mA

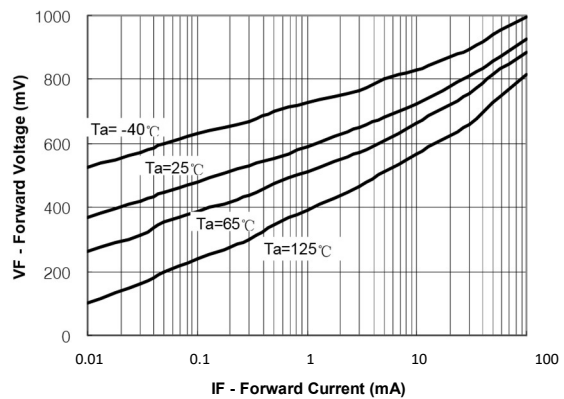
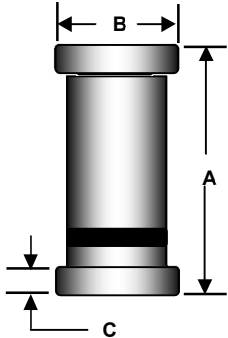


Figure 6. Forward Voltage vs Ambient Temperature
VF – 0.01mA to 100mA (-40 to +125 Deg C)

Package Outline

Package	Case Outline					
LL34		LL-34				
		Millimeters		Inches		
		DIM	Min	Max	Min	Max
		A	3.30	3.60	0.130	0.142
		B	1.40	1.50	0.055	0.059
C	0.35	0.50	0.014	0.020		

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