

High Speed Diode Mini-Melf



RoHS
Compliant



Features:

- Fast switching device (TRR < 4nS)
- 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
- Matte tin (Sn) lead finish
- Blue colour band indicates negative polarity

Maximum Ratings and Electrical Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Type Number	Symbol	Value	Units
Power Dissipation	P_d	500	mW
Working Inverse Voltage	W_{IV}	75	V
Non-repetitive Peak Forward Current	I_{FM}	450	mA
Average Rectified Current	I_O	150	
Peak Forward Surge Current	$I_{F SURGE}$	2	A
Operating Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to +200	

Electrical Characteristics

Type Number	Symbol	Min.	Max.	Units
Breakdown Voltage $I_R = 100\mu A$ $I_R = 5\mu A$	B_V	100 75	-	V
Forward Voltage LL914B $I_F = 5mA$ LL914B $I_F = 100mA$	V_F	0.62 -	0.72 1	
Reverse Leakage Current $V_R = 20V$ $V_R = 75V$	I_R	-	25 5	nA μA
Junction Capacitance $V_R = 0, f = 1MHz$	C_J	-	4	pF
Reverse Recovery Time (Note 1)	t_{rr}	-		nS

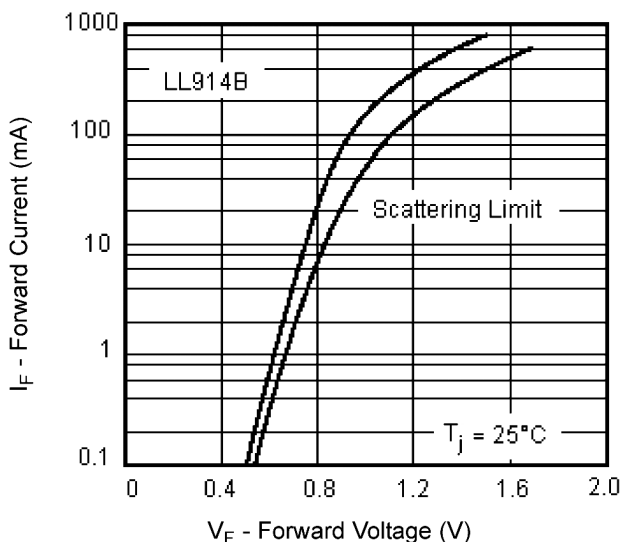
Notes: 1. Reverse Recovery Test Conditions: $I_F = 10mA$, $V_R = 6V$, $R_L = 100\Omega$, $I_{RR} = 1mA$

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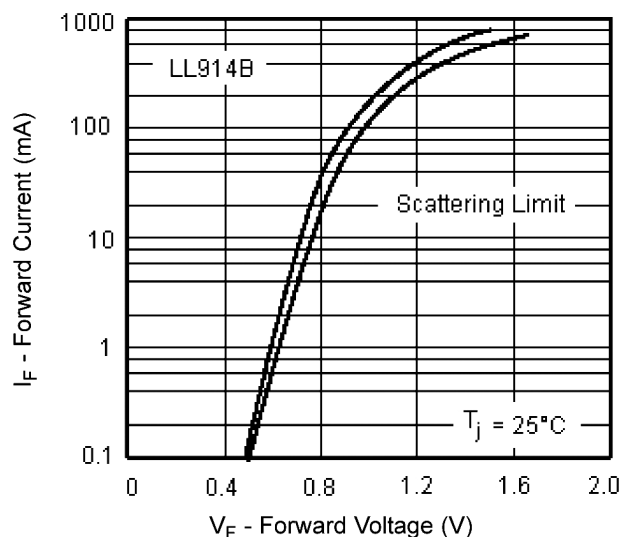


Ratings and Characteristic Curves (LL914B)

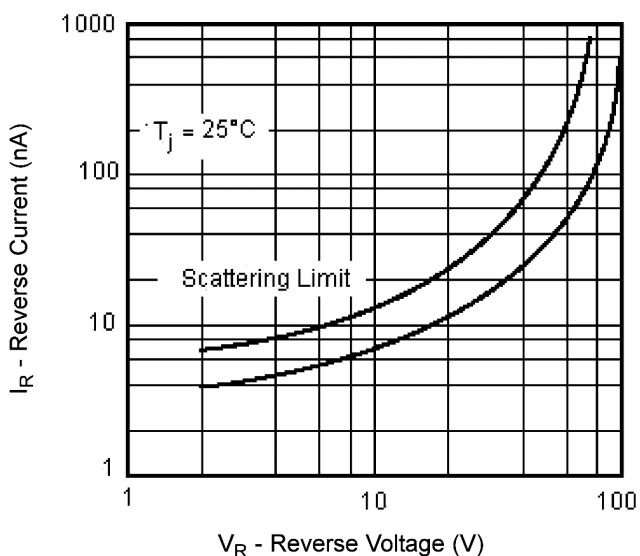
Forward Current vs. Forward Voltage



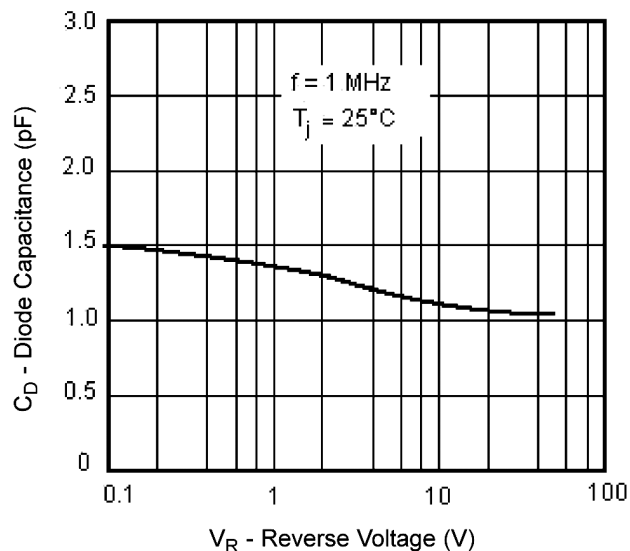
Forward Current vs. Forward Voltage



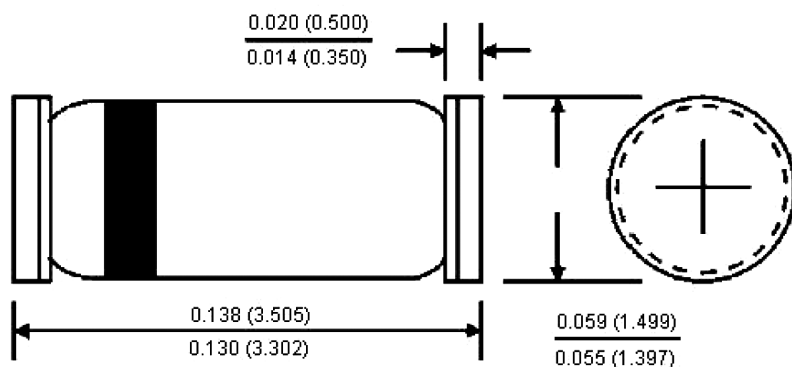
Reverse Current vs. Reverse Voltage



Diode Capacitance vs. Reverse Voltage



High Speed Diode Mini-Melf



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, High Speed, Mini-Melf	LL914B

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