

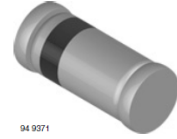


# SWITCHING DIODE LL4148

## Switching Diode

### Features

- Silicon Epitaxial Planer Diode
- Fast Switching Speed
- General Purpose Switching Applications
- Also available in the SOD-123 packages as the 1N4148W,
- And the Quadro MELF as the LS4148, and the DO-35 as The 1N4148
- RoHS and REACH Compliance



94 9271

**RoHS**  
COMPLIANT

### Mechanical Data

<b>Case:</b>	Mini-Melf
<b>Pingout:</b>	
<b>Terminals:</b>	Solderable per MIL-STD-202E, Method 208C
<b>Polarity:</b>	Color band denotes cathode end
<b>Mounting position:</b>	Any
<b>Weight:</b>	0.00175 Ounce, 0.05 gram, approx

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	LL4148	Unit	Conditions
<b>VRRM</b>	Non-Repetitive Peak Reverse Voltage	100	<b>V</b>	
<b>VRMS</b>	Max Repetitive Peak Reverse Voltage	75	<b>V</b>	
<b>IFM</b>	Forward Continuous Current	300	<b>mA</b>	
<b>trr</b>	Max Reverse Recovery Time	4	<b>nS</b>	<b>IF= 10mA, IR=10mA, IRR=1mA,RL=100Ω</b>
<b>IFSM</b>	Non-Repetitive Peak Forward Surge Current	2.0	<b>Amps</b>	<b>T=1.0μS, T=1.0S</b>
		1.0		
<b>PTOT</b>	Power dissipation	500	<b>mW</b>	Note 1
<b>TJ, TSTG</b>	Operating and Storage Temperature	-65 to +175	<b>°C</b>	

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	LL4148	Unit	Conditions
<b>VF</b>	Max Instantaneous Forward Voltage	1.0	<b>V</b>	@10mA
<b>IR</b>	Max DC Reverse Current at Rated DC Blocking Voltage	5.0	<b>μA</b>	VR=75V
		50		VR=75V,TJ=150°C
		30		VR=25V,TJ=150°C
<b>CJ</b>	Typical Junction Capacitance	4.0	<b>pF</b>	Vf=1V, f=1MHZ
<b>Rθ-JA</b>	Typical Thermal Resistance	300	<b>°C/W</b>	

#### Note:

1. Valid provided leads at a distance of 0.31" (8mm) from case are kept at ambient temperature

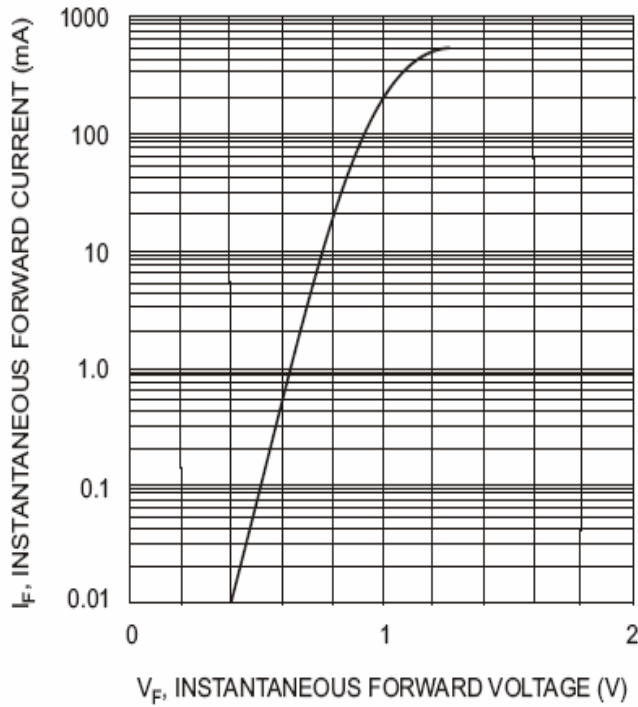
**Ratings And Characteristic Curve LL4148:**


Fig. 1 Forward Characteristics

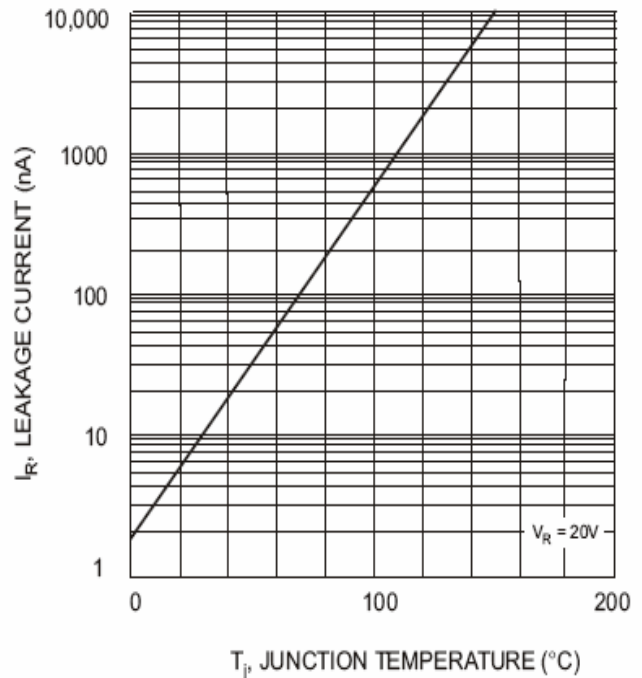
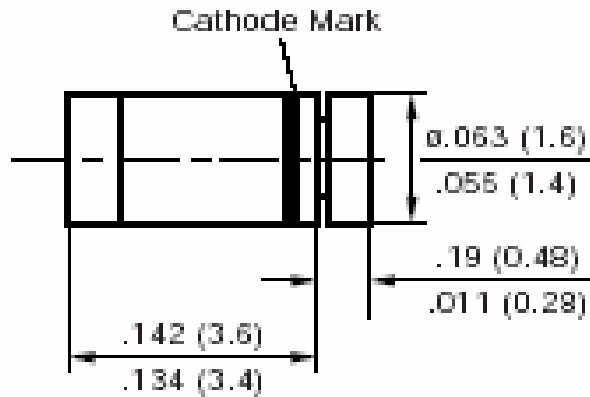


Fig. 2, Leakage Current vs Junction Temperature

Dimensions in inch (mm)



**MINI-MELF**

Contact us:

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