LS4150

SURFACE MOUNT FAST SWITCHING DIODES

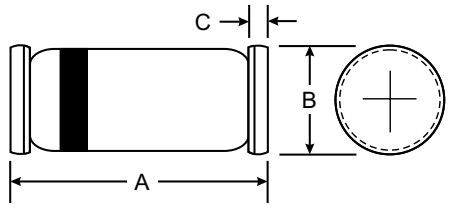
Features

- Ideal for Fast Logic Applications
- Ultra Fast Switching
- High Reliability
- High Conductance

Mechanical Data

- Case: LL34(SOD-80), Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Cathode Band Only
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)

RoHS COMPLIANT



LL34/ SOD-80		
Dim	**Min**	**Max**
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	LS4150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	V
Forward Continuous Current (Note 1)	I_{FM}	600	mA
Average Rectified Output Current (Note 1)	I_O	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 s	I_{FSM}	4.0	A
Power Dissipation	P_d	500	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R_{JA}	300	K/W
Operating and Storage Temperature Range	T_j , T_{STG}	-65 to +175	C

Electrical Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}	0.54 0.66 0.76 0.82 0.87	0.62 0.74 0.86 0.92 1.0	V	I_F = 1.0mA I_F = 10mA I_F = 50mA I_F = 100mA I_F = 200mA
Maximum Peak Reverse Current	I_{RM}		100 100	nA A	V_R = 50V V_R = 50V, T_j = 150 C
Junction Capacitance	C_j		2.5	pF	V_R = 0, f = 1.0MHz
Reverse Recovery Time	t_{rr}		4.0	ns	I_F = I_R = 10mA, I_{rr} = 0.1 x I_R, R_L = 100

Notes: 1. Valid provided that electrodes are kept at ambient temperature.

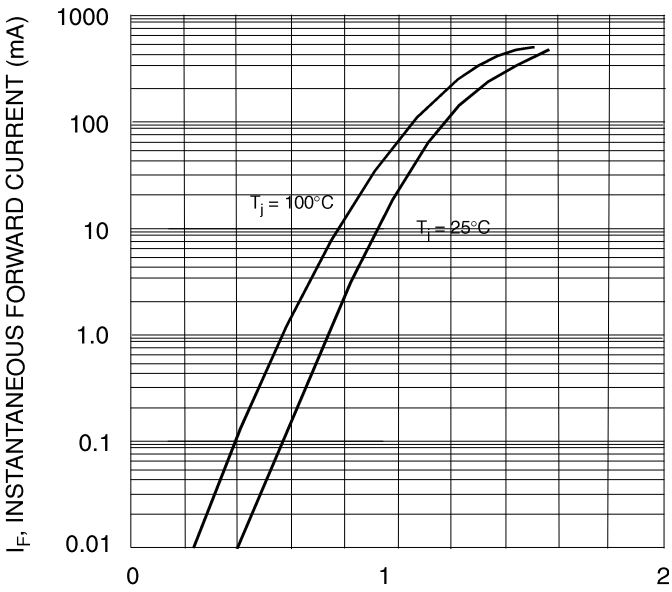


Fig. 1 Forward Characteristics

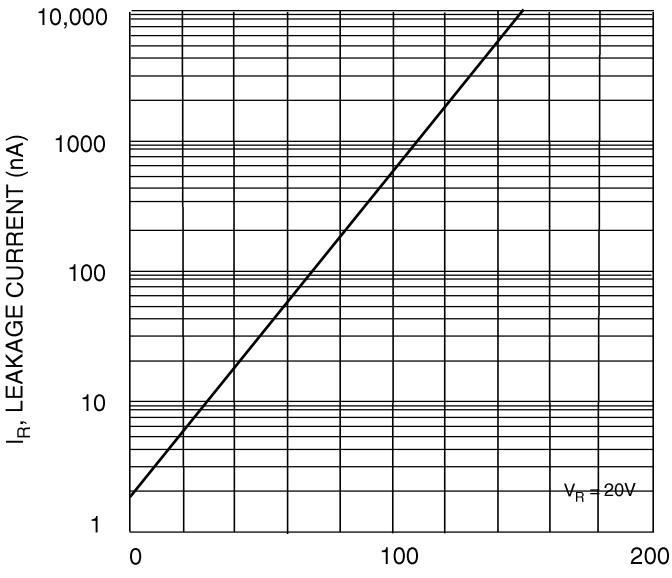


Fig. 2 Leakage Current vs Junction Temperature