

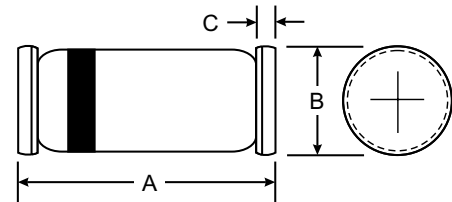


Features

- Fast Switching Speed
- Suitable for General Logic Applications
- High Conductance

Mechanical Data

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



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		

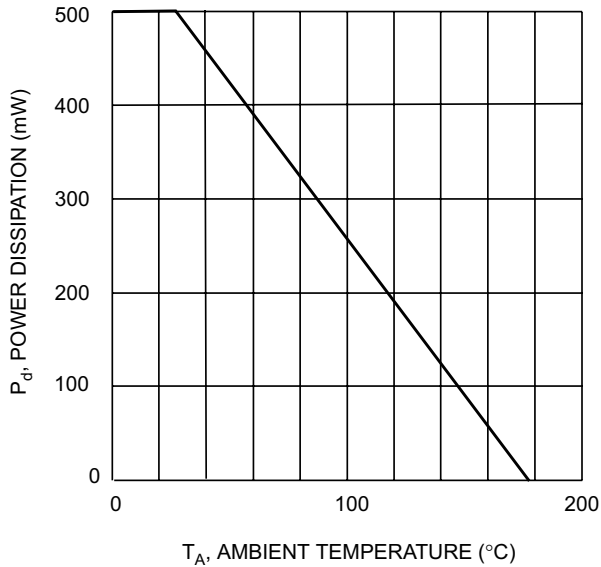
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	LL4154	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	35	V
Peak Repetitive Reverse Voltage	V _{RRM}	25	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	18	V
Average Rectified Output Current (Note 1)	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 1.0μs	I _{FSM}	0.5 2.0	A
Power Dissipation (Note 1)	P _d	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	300	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175	°C

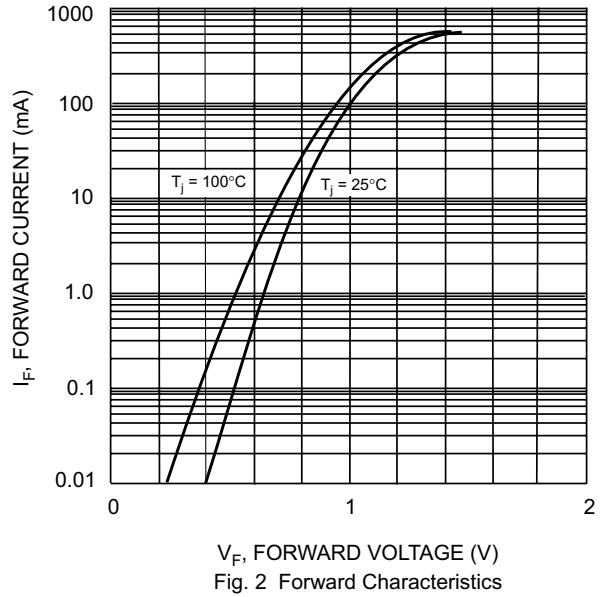
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage Drop	V _{FM}	—	1.0	V	I _F = 30mA
Maximum Peak Reverse Current	I _{RM}	—	100	nA μA	V _R = 25V V _R = 25V, T _j = 150°C
Junction Capacitance	C _j	—	4.0	pF	V _R = 0V, 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 = 100Ω

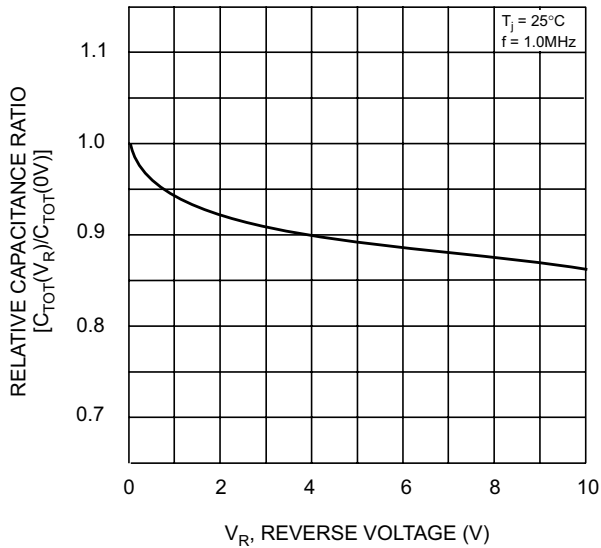
Note: 1. Valid provided that electrodes are kept at ambient temperature.



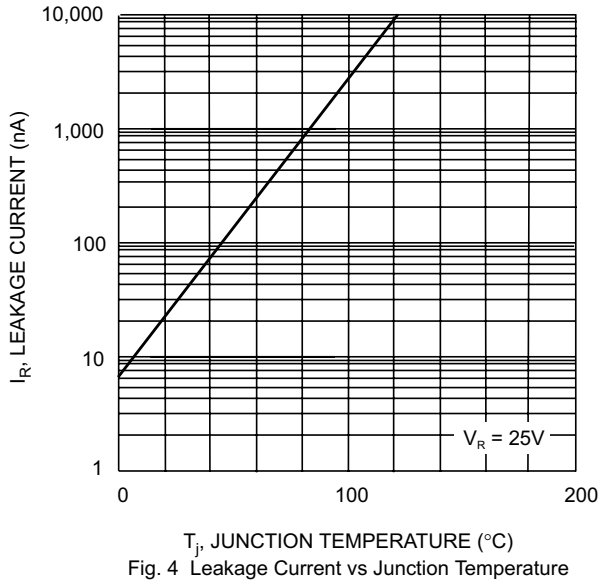
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



V_F , FORWARD VOLTAGE (V)
Fig. 2 Forward Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 3 Relative Capacitance Variation



T_j , JUNCTION TEMPERATURE (°C)
Fig. 4 Leakage Current vs. Junction Temperature