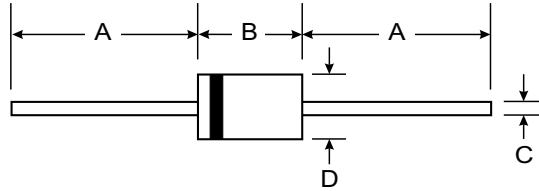


Features

- Fast Switching Speed
- Suitable for General Logic Applications
- High Conductance
- Available in Surface Mount Version (LL4154)



Mechanical Data

- Case: DO-35, Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1N4154	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 leads are kept at ambient temperature.

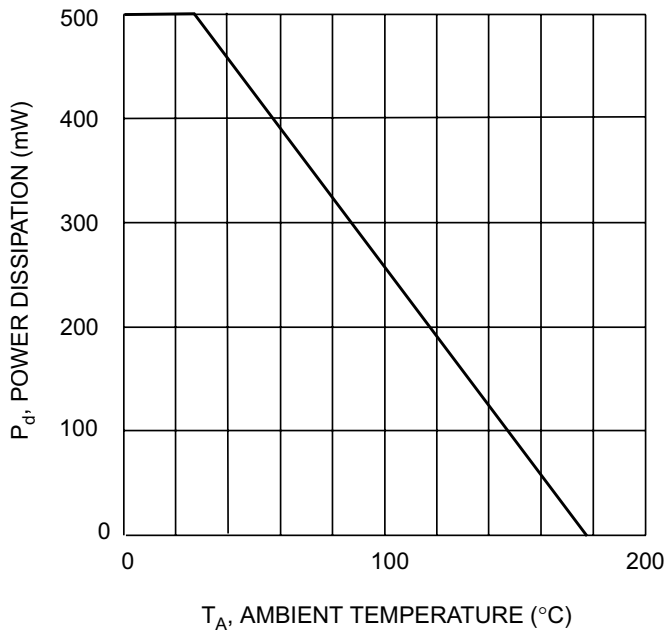


Fig. 1 Power Derating Curve

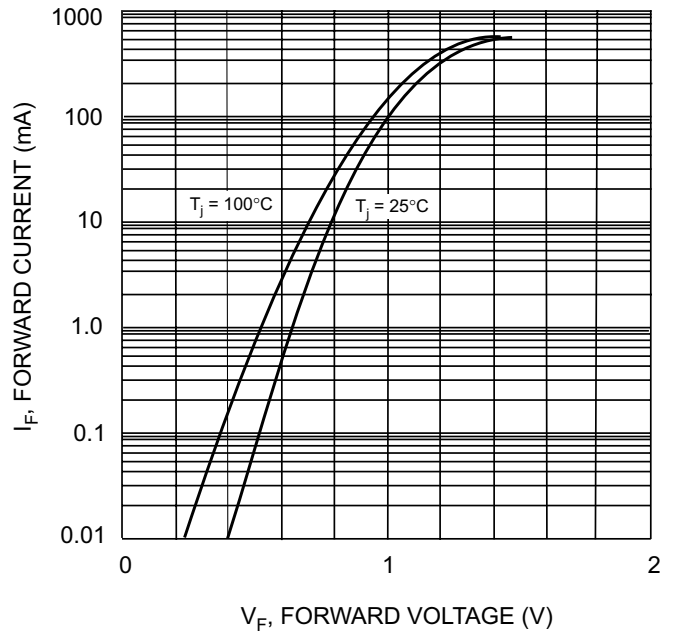


Fig. 2 Forward Characteristics

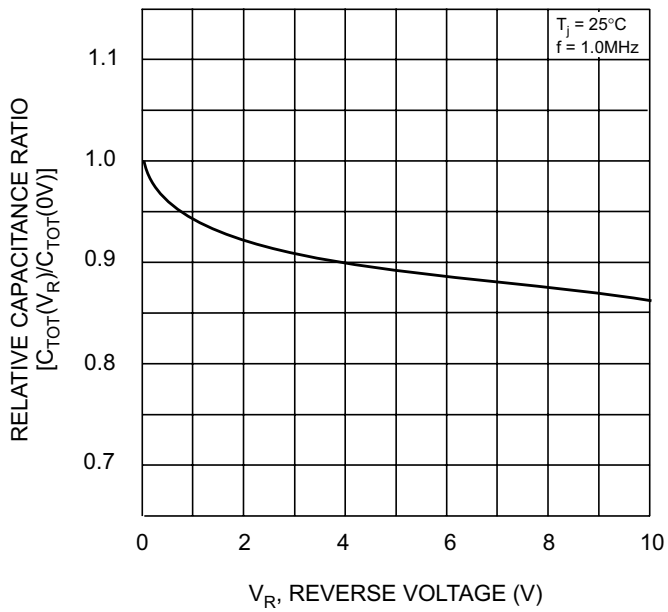


Fig. 3 Relative Capacitance Variation

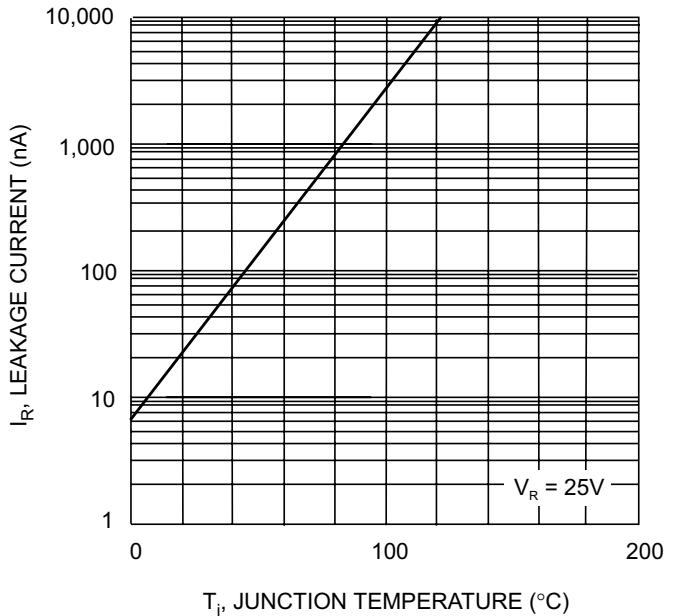


Fig. 4 Leakage Current vs. Junction Temperature