

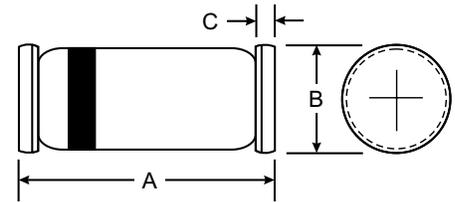


Features

- Ideal for Fast Logic Applications
- Ultra Fast Switching
- High Reliability
- 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	LL4150	Unit
Non-Repetitive Peak Reverse Voltage @ 5.0μA	V _{RM}	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	50	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	35	V
Forward Continuous Current (Note 1)	I _{FM}	400	mA
Average Rectified Output Current (Note 1)	I _O	200	mA
Repetitive Peak Forward Current (Note 1)	I _{FRM}	600	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 1.0μs	I _{FSM}	1.0 4.0	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 +200	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage Drop	V _{FM}	0.54 0.66 0.76 0.82 0.87	0.62 0.74 0.86 0.92 1.00	V	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 100mA I _F = 200mA
Maximum Peak Reverse Current	I _{RM}	—	100	nA μA	T _A = 25°C T _A = 150°C
Junction Capacitance	C _j	—	2.5	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	4.0	ns	I _F = I _R = 200mA, I _{rr} = 0.1 x I _R , R _L = 100Ω
Forward Recovery Time	t _{fr}	—	10	ns	I _F = 200mA, V _{FR} = 1.0V

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