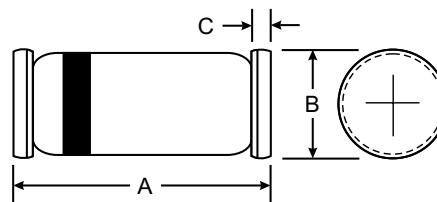


Features

- Fast switching Speed.
- Surface Mount Package Ideally Suited
- For Automatic Insertion.
- Silicon Epitaxial Planar Construction.

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 and Electrical Characteristics T_A = 25°C unless otherwise specified

PARAMETER	SYMBOL	MCL4150	UNITS
Reverse Voltage	V_R	50	V
Peak Reverse Voltage	V_{RM}	50	V
RMS Voltage	V_{RMS}	35	V
Maximum Average Forward Current at $T_A = 25^\circ\text{C}$ And $f \geq 50\text{Hz}$	$I_{F(AV)}$	200	mA
Surge Forward Current at $t < 1\text{s}$ and $T_J = 25^\circ\text{C}$	I_{FSM}	500	mA
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	P_{TOT}	500	mW
Maximum Forward Voltage at $I_F = 200\text{mA}$	V_F	1.0	V
Maximum Leakage Current at $V_R = 50\text{V}$	I_R	0.1	μA
Maximum Capacitance (Note 1)	C_J	4	pF
Maximum Reverse Recovery Time (Note 2)	t_{rr}	4	ns
Typical Thermal Resistance	$R_{\theta JA}$	350	$^\circ\text{C} / \text{W}$
Junction Temperature and Storage Temperature Range	T_J, T_S	-65 to +175	$^\circ\text{C}$

NOTE:

1. C_J at $V_R = 0$, $f = 1\text{MHz}$
2. From $I_F = 10\text{mA}$ to $I_R = 1\text{mA}$, $V_R = 6\text{Volts}$, $R_L = 100\Omega$

