

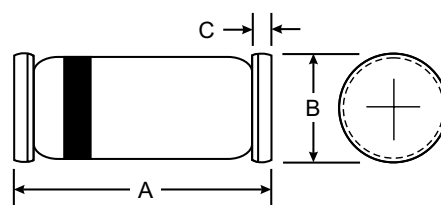


### Features

- 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 $T_A = 25^\circ\text{C}$ 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	$\mu\text{A}$
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  $I_R=1\text{mA}$ ,  $V_R=6\text{Volts}$ ,  $R_L=100\Omega$

