

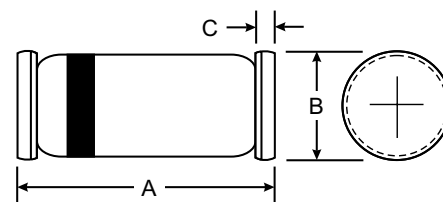


Features

- 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 $T_A = 25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	75	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Current Pulse Width = 1.0 second Pulse Width = 1.0microsecond	1.0	A
		4.0	A
T_{STG}	Storage Temperature Range	-65 to +200	$^\circ\text{C}$
T_J	Operating Junction Temperature	-65 to +200	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	350	$^\circ\text{C/W}$

Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max	Units
V_R	Breakdown Voltage	$I_R = 5\mu\text{A}$	75		V
V_F	Forward Voltage	$I_F = 50\text{mA}$		1	V
I_R	Reverse Current	$V_R = 50\text{V}$ $V_R = 30\text{V}, T_A = 150^\circ\text{C}$		50 50	nA μA
C_T	Total Capacitance	$V_R = 0, f = 1.0\text{MHz}$		4	pF
t_{rr1}	Reverse Recovery Time	$I_F = I_R = 10\text{mA}, I_{RR} = 1\text{mA}$ $R_L = 100\Omega$		4	ns
t_{rr2}	Reverse Recovery Time	$V_R = 6\text{V}, I_F = 10\text{mA}, I_{RR} = 1\text{mA}$ $R_L = 100\Omega$		2	ns