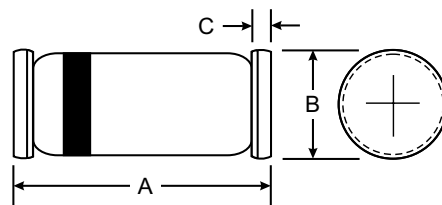

Features

- Ideal for Fast Logic Applications
- 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	
W_{IV}	Working Inverse Voltage	150	V	
I_O	Average Rectified Forward Current	200	mA	
I_F	DC Forward Current	500	mA	
i_f	Recurrent Peak Forward Current	600	mA	
I_{FSM}	Non-repetitive Peak Forward Surge Current	Pulse Width = 1.0 s	1.0	A
		Pulse Width = 1.0 μs	4.0	A
T_{STG}	Storage Temperature Range	-65 to +200	$^\circ\text{C}$	
T_J	Operating Junction Temperature	175	$^\circ\text{C}$	

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

Symbol	Parameter	Max.	Units
		FDH400	
P_D	Power Dissipation	500	mW
	Derate above 25°C	3.33	mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	$^\circ\text{C}/\text{W}$



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

Symbol	Parameter		Test Conditions	Min.	Max.	Units
V_R	Breakdown Voltage	FDH / FDLL 400	$I_R = 100 \mu\text{A}$	200		V
V_F	Forward Voltage	FDH / FDLL 400	$I_F = 200 \text{ mA}$		1.0	V
			$I_F = 300 \text{ mA}$		1.1	V
I_R	Reverse Leakage	FDH / FDLL 400	$V_R = 150 \text{ V}$		100	nA
			$V_R = 150 \text{ V}, T_A = 150^\circ\text{C}$		100	μA
C_O	Diode Capacitance	FDH / FDLL 400	$V_R = 0, f = 1.0 \text{ MHz}$		2.0	pF
t_{rr}	Reverse Recovery Time	FDH / FDLL 400	$I_F = I_R = 30 \text{ mA}, I_{rr} = 3.0 \text{ mA}, R_L = 100 \Omega$		50	ns