



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



## Features

- Silicon Epitaxial Planar Diodes
- Micro Melf package

## Mechanical Data

- Case: SOD-80/LL34, Glass
- Terminals: Solderable per MIL-STD-202,
- Method 208
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)



## Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Repetitive peak reverse voltage		$V_{RRM}$	35	V
Reverse voltage		$V_R$	25	V
Peak forward surge current	$t_p = 1 \mu\text{s}$	$I_{FSM}$	2	A
Repetitive peak forward current		$I_{FRM}$	450	mA
Forward continuous current		$I_F$	200	mA
Average forward current	$V_R = 0$	$I_{FAV}$	150	mA
Power dissipation		$P_{tot}$	500	mW

## Thermal Characteristics $T_{amb} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Junction to ambient air	mounted on epoxy-glass hard tissue, Fig. 4, 35 $\mu\text{m}$ copper clad, 0.9 $\text{mm}^2$ copper area per electrode	$R_{thJA}$	500	K/W
Junction temperature		$T_j$	175	$^\circ\text{C}$
Storage temperature range		$T_{stg}$	- 65 to + 175	$^\circ\text{C}$

## Electrical Characteristics $T_{amb} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	$I_F = 30 \text{ mA}$	$V_F$			1000	mV
Reverse current	$V_R = 25 \text{ V}$	$I_R$			100	nA
	$V_R = 25 \text{ V}, T_j = 150^\circ\text{C}$	$I_R$			100	$\mu\text{A}$
Breakdown voltage	$I_R = 5 \mu\text{A}, t_p/T = 0.01, t_p = 0.3 \text{ ms}$	$V_{(BR)}$	35			V
Diode capacitance	$V_R = 0, f = 1 \text{ MHz}, V_{HE} = 50 \text{ mV}$	$C_D$			4	pF
Reverse recovery time	$I_F = I_R = 10 \text{ mA}, i_R = 1 \text{ mA}$	$t_{rr}$			4	ns
	$I_F = 10 \text{ mA}, V_R = 6 \text{ V},$ $i_R = 0.1 \times I_R, R_L = 100 \Omega$	$t_{rr}$			2	ns

