

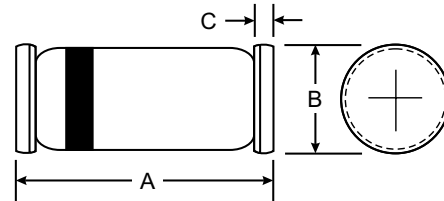


Features

- 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 and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Test condition	Symbol	Value			Unit
Repetitive peak reverse voltage		V _{RRM}	75			V
Reverse voltage		V _R	50			V
Peak forward surge current	t _p = 1 μs	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 _V	500			mW
Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	I _F = 50 mA	V _F		880	1000	mV
Reverse voltage	V _R = 50 V	I _R			50	nA
	V _R = 50 V, T _j = 150 °C	I _R			50	μA
Breakdown voltage	I _R = 5 μA, t _p /T = 0.01, t _p = 0.3 ms	V _(BR)	75			V
Diode capacitance	V _R = 0, f = 1 MHz, V _{HF} = 50 mV	C _D			2	pF
Reverse recovery time	I _F = I _R = 10 mA, i _R = 1 mA	t _{rr}			4	ns
	I _F = 10 mA, V _R = 6 V, i _R = 0.1 x I _R , R _L = 100 Ω	t _{rr}			2	ns

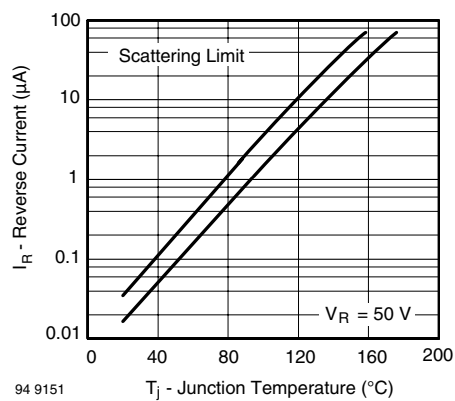


Figure 1. Reverse Current vs. Junction Temperature

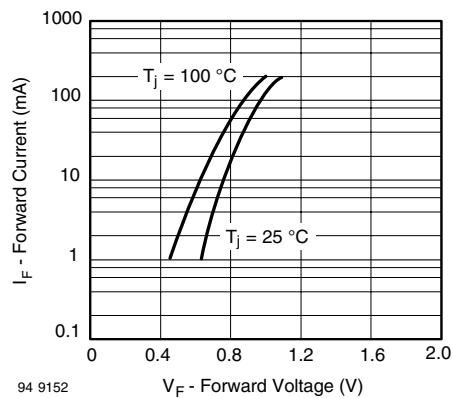


Figure 2. Forward Current vs. Forward Voltage

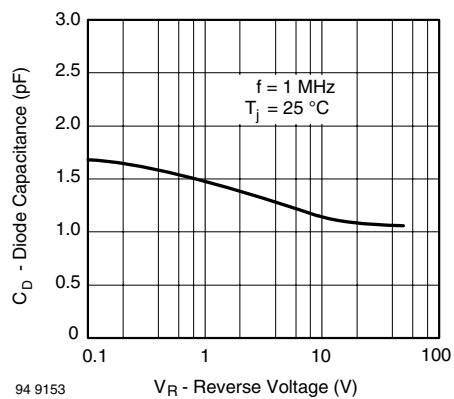


Figure 3. Diode Capacitance vs. Reverse Voltage

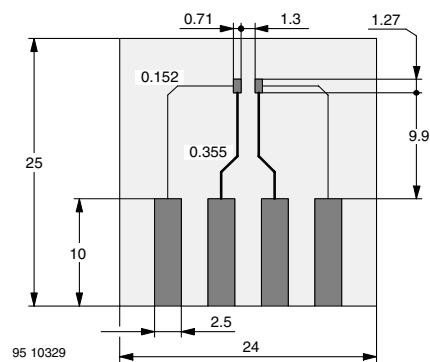


Figure 4. Board for R_{thJA} definition (in mm)