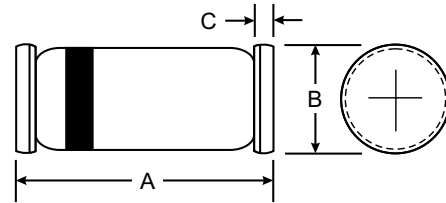




### Features

- 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<sub>A</sub> = 25°C unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit		
Repetitive peak reverse voltage		V <sub>RRM</sub>	75	V		
Reverse voltage		V <sub>R</sub>	50	V		
Peak forward surge current	t <sub>p</sub> = 1 μs	I <sub>FSM</sub>	2	A		
Repetitive peak forward current		I <sub>FRM</sub>	450	mA		
Forward continuous current		I <sub>F</sub>	200	mA		
Average forward current	V <sub>R</sub> = 0	I <sub>FAV</sub>	150	mA		
Power dissipation		P <sub>V</sub>	500	mW		
Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	I <sub>F</sub> = 50 mA	V <sub>F</sub>		880	1000	mV
Reverse voltage	V <sub>R</sub> = 50 V	I <sub>R</sub>			50	nA
	V <sub>R</sub> = 50 V, T <sub>J</sub> = 150 °C	I <sub>R</sub>			50	μA
Breakdown voltage	I <sub>R</sub> = 5 μA, t <sub>p</sub> /T = 0.01, t <sub>p</sub> = 0.3 ms	V <sub>(BR)</sub>	75			V
Diode capacitance	V <sub>R</sub> = 0, f = 1 MHz, V <sub>HF</sub> = 50 mV	C <sub>D</sub>			2	pF
Reverse recovery time	I <sub>F</sub> = I <sub>R</sub> = 10 mA, i <sub>R</sub> = 1 mA	t <sub>rr</sub>			4	ns
	I <sub>F</sub> = 10 mA, V <sub>R</sub> = 6 V, i <sub>R</sub> = 0.1 x I <sub>R</sub> , R <sub>L</sub> = 100 Ω	t <sub>rr</sub>			2	ns

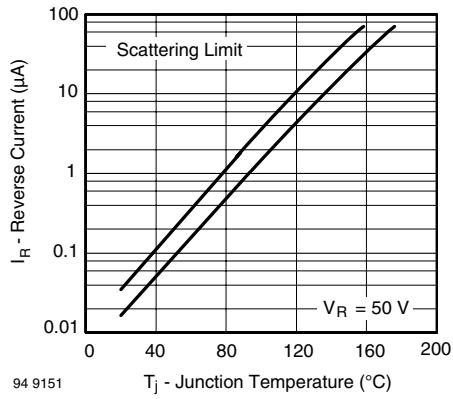


Figure 1. Reverse Current vs. Junction Temperature

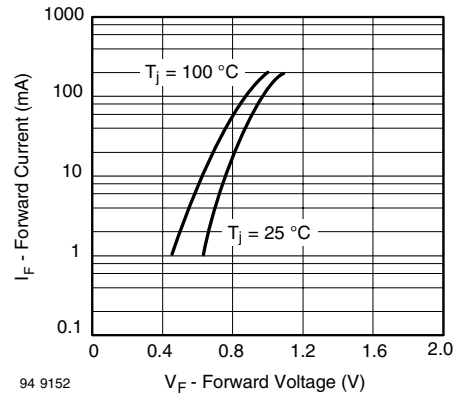


Figure 2. Forward Current vs. Forward Voltage

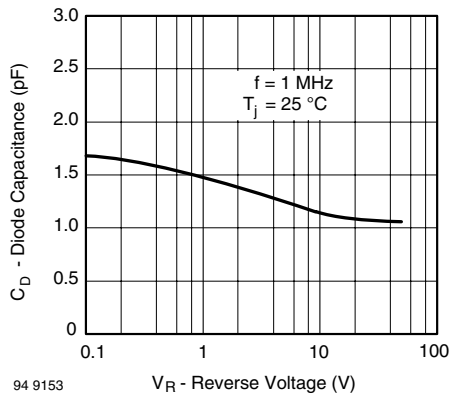


Figure 3. Diode Capacitance vs. Reverse Voltage

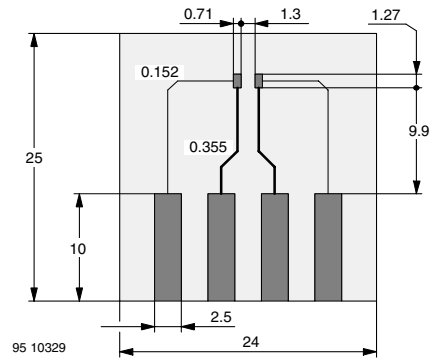


Figure 4. Board for  $R_{thJA}$  definition (in mm)