

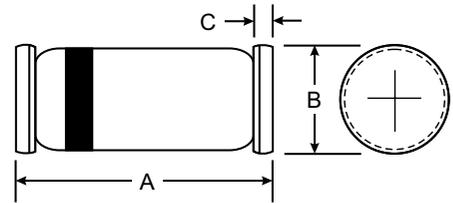


### Features

- Integrated protection ring against static discharge
- Low capacitance
- Low leakage current
- Low forward voltage drop
- Very low switching time

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

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage		BAS81	V <sub>R</sub>	40	V
		BAS82	V <sub>R</sub>	50	V
		BAS83	V <sub>R</sub>	60	V
Peak forward surge current	t <sub>p</sub> =1s		I <sub>FSM</sub>	500	mA
Repetitive peak forward current			I <sub>FRM</sub>	150	mA
Forward current			I <sub>F</sub>	30	mA
Junction temperature			T <sub>j</sub>	125	°C
Storage temperature range			T <sub>stg</sub>	-65...+150	°C

Maximum Thermal Resistance T<sub>j</sub> = 25 °C

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on PC board 50mmx50mmx1.6mm	R <sub>thJA</sub>	320	K/W

Electrical Characteristics T<sub>j</sub> = 25 °C

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I <sub>F</sub> =0.1mA		V <sub>F</sub>			330	mV
	I <sub>F</sub> =1mA		V <sub>F</sub>			410	mV
	I <sub>F</sub> =15mA		V <sub>F</sub>			1	V
Reverse current	V <sub>R</sub> =V <sub>Rmax</sub>		I <sub>R</sub>			200	nA
Diode capacitance	V <sub>R</sub> =1V, f=1MHz		C <sub>D</sub>			1.6	pF

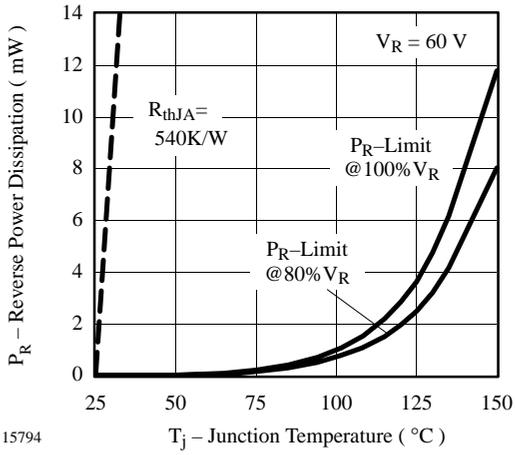


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

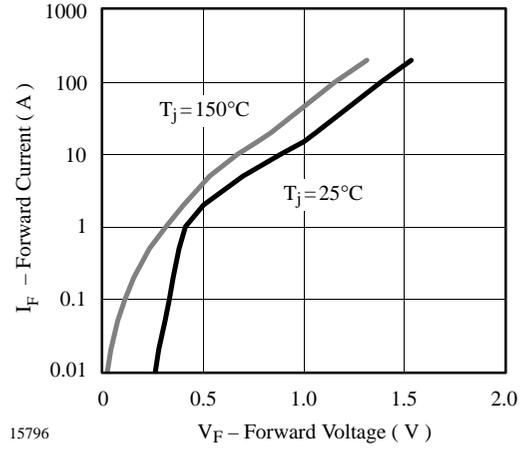


Figure 3. Forward Current vs. Forward Voltage

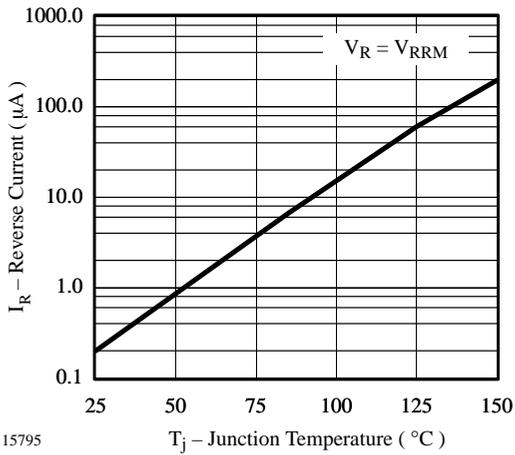


Figure 2. Reverse Current vs. Junction Temperature

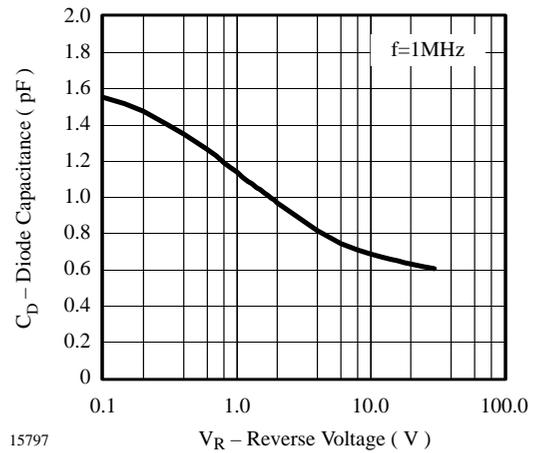


Figure 4. Diode Capacitance vs. Reverse Voltage