

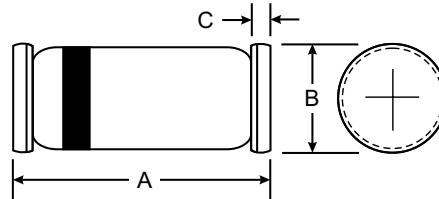


### Features

- Integrated protection ring against static discharge
- Low capacitance
- Low leakage current
- Low forward voltage drop

### 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 Thermal Characteristics

(Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	
LL101A		50	V
LL101B		40	
LL101C			
Maximum Single Cycle Surge 10μs Square Wave	I <sub>FSM</sub>	2	A
Power Dissipation (Infinite Heatsink)	P <sub>D</sub>	400 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	300 <sup>(1)</sup>	°C/W
Junction Temperature	T <sub>J</sub>	125 <sup>(1)</sup>	°C
Storage temperature range	T <sub>S</sub>	-55 to + 150 <sup>(1)</sup>	°C

Note: (1) Valid provided that electrodes are kept at ambient temperature.

### Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

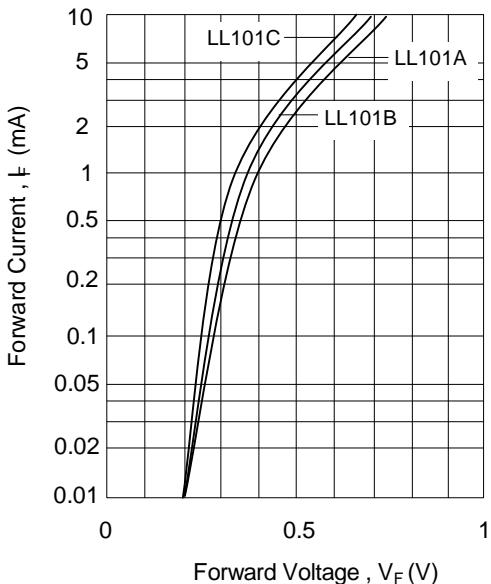
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 10 μA	60	-	-	
LL101A			50	-	-	V
LL101B			40	-	-	
LL101C						
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 50 V V <sub>R</sub> = 40 V V <sub>R</sub> = 30 V	-	-	10	μA
LL101A			-	-	10	
LL101B			-	-	10	
LL101C			-	-	10	
Forward Voltage Drop	V <sub>F</sub>	I <sub>F</sub> = 1mA	-	-	0.41	
LL101A			-	-	0.40	V
LL101B			-	-	0.39	
LL101C			-	-		
LL101A			-	-	1.00	
LL101B			-	-	0.95	
LL101C			-	-	0.90	
Reverse Recovery Time	Tr <sub>r</sub>	I <sub>F</sub> = I <sub>R</sub> = 5mA , recover to 0.1I <sub>R</sub>	-	-	1.0	ns



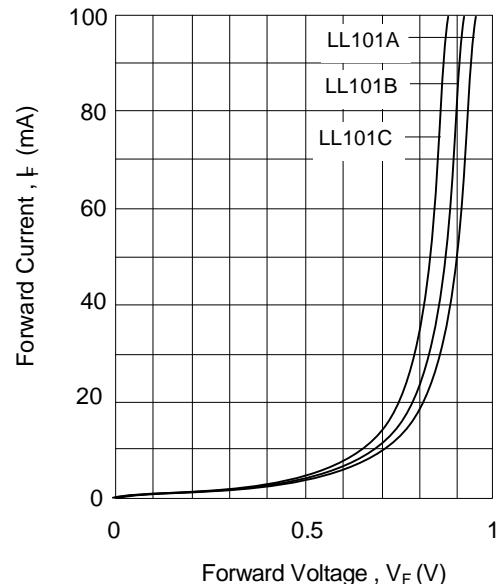
SUNMATE

## RATING AND CHARACTERISTIC CURVES ( LL101A - LL101C )

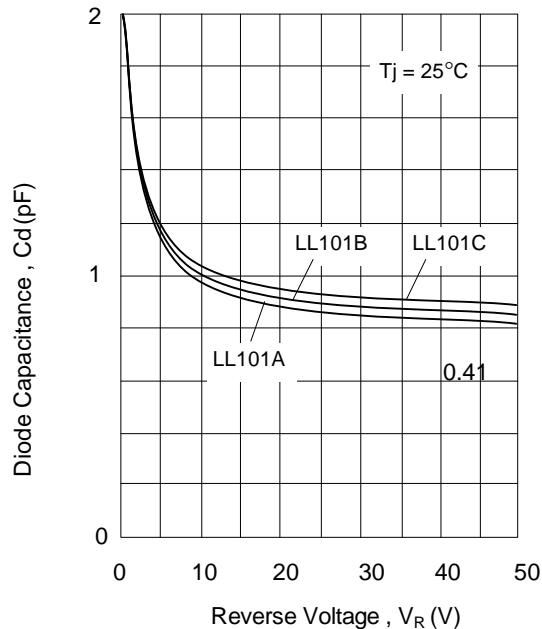
Typical variation of forward current and forward voltage for primary conduction through the schottky barrier



Typical forward conduction curve of combination Schottky barrier and PN junction guard ring



Typical capacitance curve as a function of reverse Voltage



Typical variation of reverse current at various temperatures

