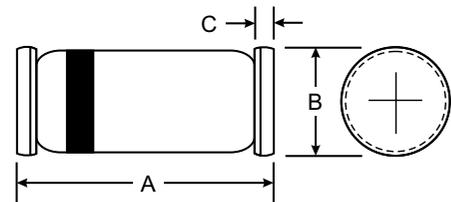


**VOLTAGE RANGE: 40V**  
**CURRENT: 0.35A**

### Features

- For general purpose applications
- These diodes feature very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.



### 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	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Continuous Forward Current	I <sub>F</sub>	350 <sup>(1)</sup>	mA
Repetitive Peak Forward Current at tp < 1s,	I <sub>FRM</sub>	1 <sup>(1)</sup>	A
Forward Surge Current at tp < 10 ms,	I <sub>FSM</sub>	7.5 <sup>(1)</sup>	A
Power Dissipation , Ta = 65 °C	P <sub>D</sub>	330 <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	°C
Ambient Operating Temperature Range	T <sub>a</sub>	-65 to + 125	°C
Storage temperature range	T <sub>s</sub>	-65 to + 150	°C

Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.

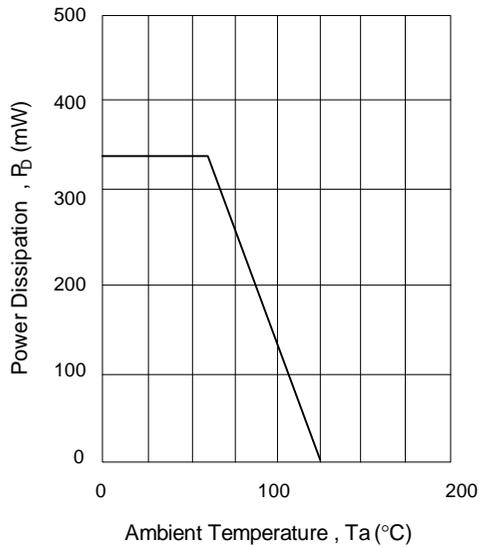
### Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 100 μA (pulsed)	40	-	-	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 10 V	-	-	2	μA
Pulse Test tp < 300μs , δ < 2%		V <sub>R</sub> = 20 V	-	-	5	
		V <sub>R</sub> = 40 V	-	-	25	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA	-	-	0.30	V
Pulse Test tp < 300μs , δ < 2%		I <sub>F</sub> = 10mA	-	-	0.40	
		I <sub>F</sub> = 30mA	-	-	0.50	
		I <sub>F</sub> = 100mA	-	-	0.75	
		I <sub>F</sub> = 500mA	-	-	0.90	
Diode Capacitance	C <sub>d</sub>	V <sub>R</sub> = 1V, f = 1MHz	-	12	-	pF

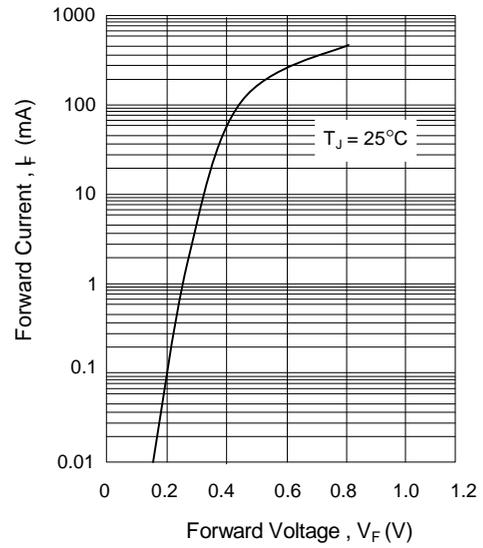


## RATING AND CHARACTERISTIC CURVES ( LL48 )

**Admissible Power Dissipation vs. Ambient Temperature**



**Typical Forward Characteristics**



**Typical Reverse Characteristics**

