

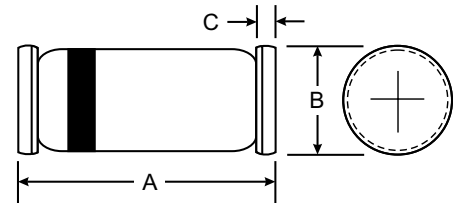
VOLTAGE RANGE: 20V
CURRENT: 0.35A

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 $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	V
Continuous Forward Current	I_F	350	mA
Repetitive Peak Forward Current at $t_p < 1s$,	I_{FRM}	1	A
Forward Surge Current at $t_p < 10 ms$,	I_{FSM}	7.5	A
Power Dissipation, $T_A = 65^\circ\text{C}$	P_D	330	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300	$^\circ\text{C/W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Ambient Operating Temperature Range	T_A	-65 to + 125	$^\circ\text{C}$
Storage temperature range	T_S	-65 to + 150	$^\circ\text{C}$

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

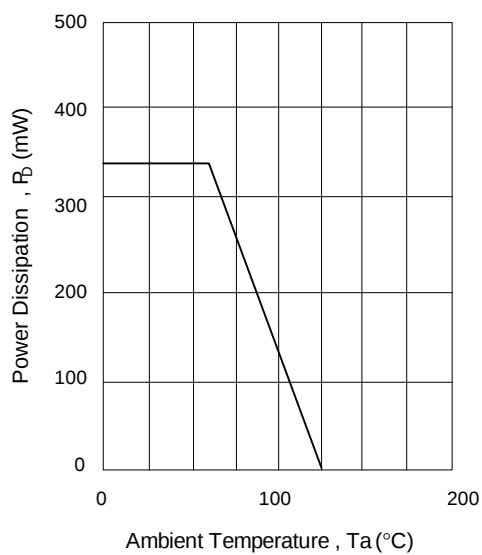
Electrical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100 \mu\text{A}$ (pulsed)	40	-	-	V
Reverse Current	I_R	$V_R = 10 \text{ V}$	-	-	2	μA
Pulse Test $t_p < 300 \mu\text{s}$, $\delta < 2\%$		$V_R = 20 \text{ V}$	-	-	5	
		$V_R = 40 \text{ V}$	-	-	25	
Forward Voltage	V_F	$I_F = 1 \text{ mA}$	-	-	0.30	V
Pulse Test $t_p < 300 \mu\text{s}$, $\delta < 2\%$		$I_F = 10 \text{ mA}$	-	-	0.40	
		$I_F = 30 \text{ mA}$	-	-	0.50	
		$I_F = 100 \text{ mA}$	-	-	0.75	
		$I_F = 500 \text{ mA}$	-	-	0.90	
Diode Capacitance	C_d	$V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$	-	12	-	pF

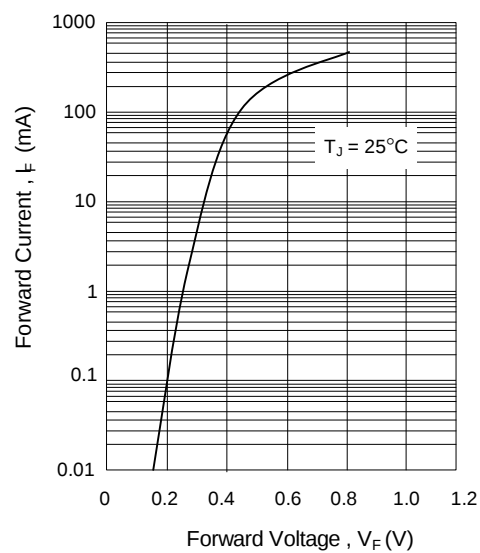


RATING AND CHARACTERISTIC CURVES (LL47)

**Admissible Power Dissipation
vs. Ambient Temperature**



Typical Forward Characteristics



Typical Reverse Characteristics

