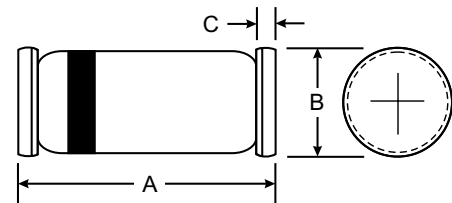


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**Features**


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- 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.




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**Mechanical Data**


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- 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		

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

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Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	20	V
Continuous Forward Current	$I_F$	350	mA
Repetitive Peak Forward Current at $t_p < 1\text{ s}$ ,	$I_{FRM}$	1	A
Forward Surge Current at $t_p < 10\text{ ms}$ ,	$I_{FSM}$	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.

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

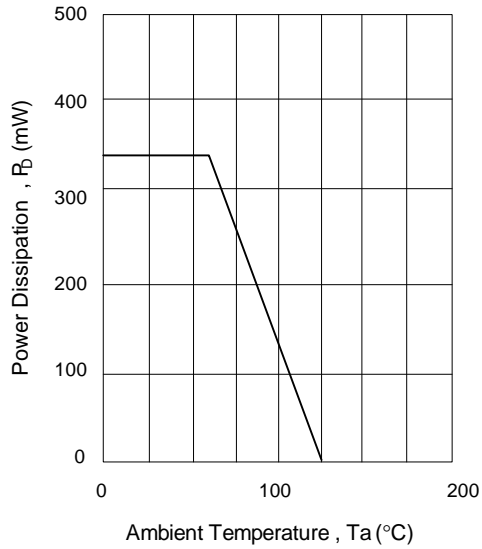
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Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\ \mu\text{A}$ (pulsed)	40	-	-	V
Reverse Current	$I_R$	$V_R = 10\ \text{V}$	-	-	2	$\mu\text{A}$
Pulse Test $t_p < 300\ \mu\text{s}$ , $\delta < 2\%$		$V_R = 20\ \text{V}$	-	-	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

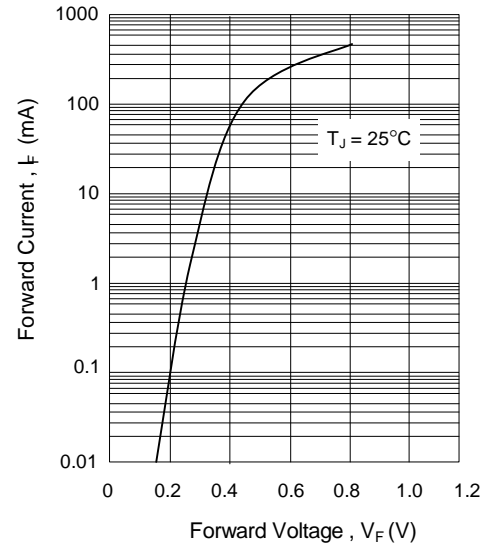


## RATING AND CHARACTERISTIC CURVES (LL47)

**Admissible Power Dissipation vs. Ambient Temperature**



**Typical Forward Characteristics**



**Typical Reverse Characteristics**

