

# 500 mW LL-34 Hermetically Sealed Glass – High Voltage Switching Diodes



SURFACE MOUNT  
LL34

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$V_{RRM}$	Maximum Repetitive Reverse Voltage	250	V
$T_{STG}$	Storage Temperature Range	-65 to +200	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	200	$^\circ\text{C}$
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
$I_{FSM}$	Non-repetitive Peak Forward Current Pulse Width = 1.0 Second	1.0	A
		4.0	A
	Pulse Width = 1.0 $\mu\text{second}$		

These ratings are limiting values above which the serviceability of the diode may be impaired.

### DEVICE MARKING DIAGRAM



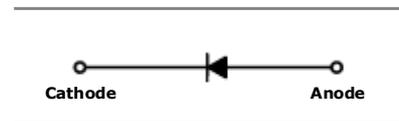
Cathode Band Color : Black

### Thermal Characteristics

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	350	$^\circ\text{C}/\text{W}$

### Specification Features:

- LL-34 (Mini-MELF) Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Color band Indicates Negative Polarity

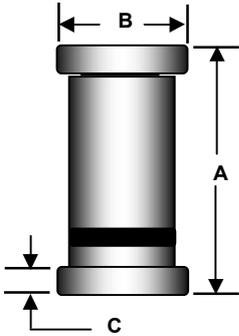


ELECTRICAL SYMBOL

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit		
			Min	Max			
$B_V$	Breakdown Voltage	TCBAV100	$I_R=100\mu\text{A}$	60	---	Volts	
		TCBAV101		120	---	Volts	
		TCBAV102		200	---	Volts	
		TCBAV103		250	---	Volts	
$I_R$	Reverse Leakage Current	TCBAV100	$V_R=50\text{V}$	---	100	nA	
		TCBAV101		$V_R=100\text{V}$	---	100	nA
		TCBAV102		$V_R=150\text{V}$	---	100	nA
		TCBAV103		$V_R=200\text{V}$	---	100	nA
$V_F$	Forward Voltage	$I_F=100\text{mA}$	---	1.0	Volts		
$T_{RR}$	Reverse Recovery Time	$I_F=I_R=30\text{mA}$ , $R_L=100\Omega$ $I_{RR}=3\text{mA}$	---	50	nS		
$C$	Capacitance	$V_R=0\text{V}$ , $f=1\text{MHz}$	---	5.0	pF		

Package Outline

Package	Case Outline																												
LL34	 <table border="1" data-bbox="715 533 1412 817"> <thead> <tr> <th rowspan="3">DIM</th> <th colspan="4">LL-34</th> </tr> <tr> <th colspan="2">Millimeters</th> <th colspan="2">Inches</th> </tr> <tr> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3.30</td> <td>3.60</td> <td>0.130</td> <td>0.142</td> </tr> <tr> <td>B</td> <td>1.40</td> <td>1.50</td> <td>0.055</td> <td>0.059</td> </tr> <tr> <td>C</td> <td>0.35</td> <td>0.50</td> <td>0.014</td> <td>0.020</td> </tr> </tbody> </table>	DIM	LL-34				Millimeters		Inches		Min	Max	Min	Max	A	3.30	3.60	0.130	0.142	B	1.40	1.50	0.055	0.059	C	0.35	0.50	0.014	0.020
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Notes:

1. All dimensions are within DO213AC JEDEC standard.
2. LL-34 polarity denoted by cathode band.

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