

500 mW Surface Mount LL-34 Hermetically Sealed Glass Small Signal Schottky Diode



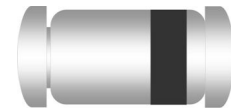
SURFACE MOUNT
LL34

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

Symbol	Parameter	Value		Units
		LL60	LL60P	
V_{RRM}	Peak Reverse Voltage	40	45	V
I_F	Forward Continuous Current	30	50	mA
I_{FSM}	Peak Forward Surge Current (t = 1S)	150	500	mA
T_{STG} / T_J	Storage and Junction Temperature Range	-65 to +125		$^\circ\text{C}$

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

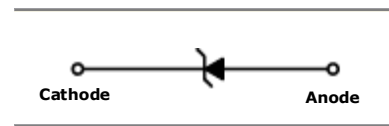
DEVICE MARKING DIAGRAM



Cathode Band Color : Black

Specification Features:

- LL-34 (Mini-MELF) Package (JEDEC)
- 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) Terminal Finish
- Color band Indicates Negative Polarity

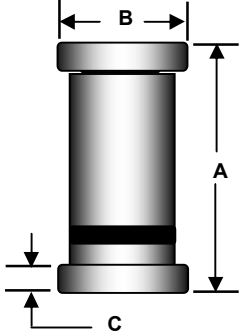


ELECTRICAL SYMBOL

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

Symbol	Parameter	Test Condition	Type	Limits			Unit
				Min	Typ	Max	
V_F	Forward Voltage	$I_F=1\text{mA}$	LL60		0.32	0.5	Volts
			LL60P		0.24	0.5	
		$I_F=30\text{mA}$	LL60		0.65	1.0	Volts
			LL60P		0.65	1.0	Volts
I_R	Reverse Leakage Current	$V_R=15\text{V}$	LL60		0.1	0.5	μA
			LL60P		0.5	1.0	
C_J	Junction Capacitance	$V_R=1\text{V}, f=1\text{MHz}$	LL60		2.0		pF
		$V_R=10\text{V}, f=1\text{MHz}$	LL60P		6.0		
T_{RR}	Reverse Recovery Time	$I_F=I_R=1\text{mA}, I_{rr}=1\text{mA}, R_c=100\ \Omega$	LL60 LL60P			1	nS

Package Outline

Package	Case Outline																																
LL34		<table border="1"> <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
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																													

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

NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <http://www.takcheong.com>, or consult your nearest Tak Cheong's sales office for further assistance.