

500 mW LL-34 Hermetically Sealed Glass Zener Voltage Regulators

Specification Features:

- Zener Voltage Range 5.1 Volts (Graded)
- 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
- Matte Tin (Sn) Terminal Finish
- Color band Indicates Negative Polarity



**SURFACE MOUNT
LL34**

DEVICE MARKING DIAGRAM



Cathode Band Color : Blue



ELECTRICAL SYMBOL

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

Parameter	Value	Units
Power Dissipation	500	mW
Forward Voltage @ $I_F = 100\text{ mA}$	1.05	V
Storage Temperature Range	-65 to +175	$^\circ\text{C}$
Operating Junction Temperature	+175	$^\circ\text{C}$

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

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

Device Type	VZ@IZT		Izt (mA)	Zzt@Izt (Ohms) Max	Zzk@Izk (Ohms) Max	Izk (mA)	I _R @ V _R (μA) Max	V _R (V)
	Min	Max						
TCLZ5V1B-T-A01	4.94	5.2	20	17	685	1	0.19	1.5

RATING AND CHARACTERISTICS CURVES (TCL5V1B)

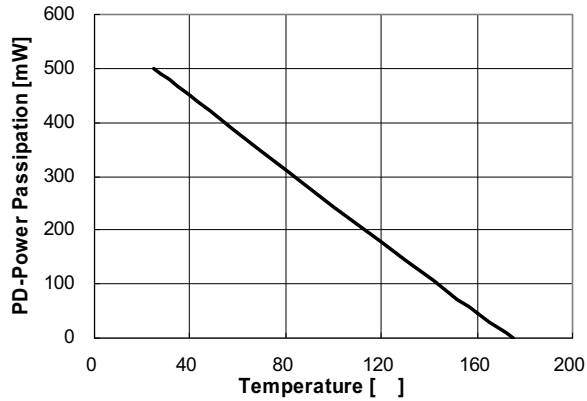


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

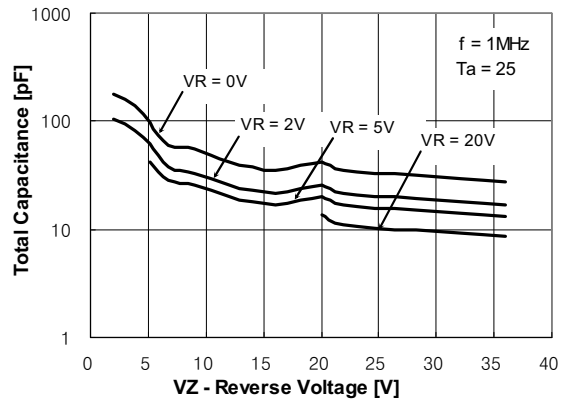


Figure 2. Total Capacitance

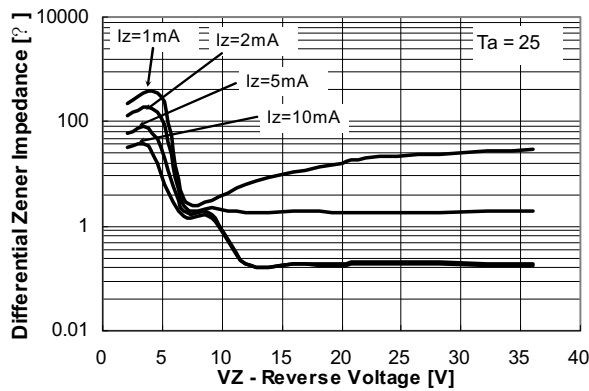


Figure 3. Differential Impedance vs. Zener Voltage

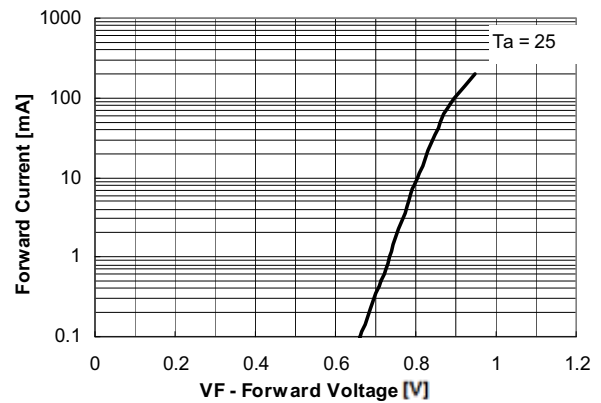


Figure 4. Forward Current vs. Forward Voltage

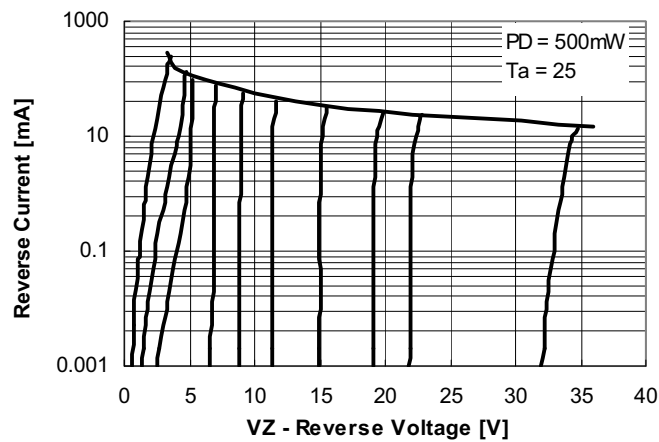
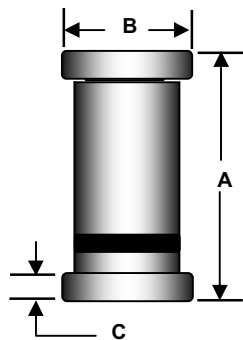


Figure 5. Reverse Current vs. Reverse Voltage

Package Outline

LL34

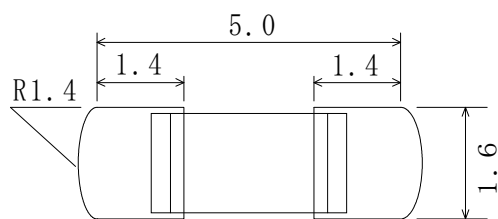


DIM	LL-34			
	Millimeters		Inches	
	Min	Max	Min	Max
A	3.302	3.600	0.130	0.142
B	1.397	1.499	0.055	0.059
C	0.350	0.500	0.014	0.020

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

Recommendation of Mounting Pad Layout

(Unit : mm)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
LL-34	-T	2,500	-----	----	----	178	390*205*310	100,000	8.40

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