

===== PRODUCT DATA =====

Micro International, Inc

PART NUMBER

LDZ970B and LDZ970BT

Micro-LID Zener Diode



Micro International, Inc.
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Micro-LID Zener Diodes LDZ970B and LDZ970BT

Description:

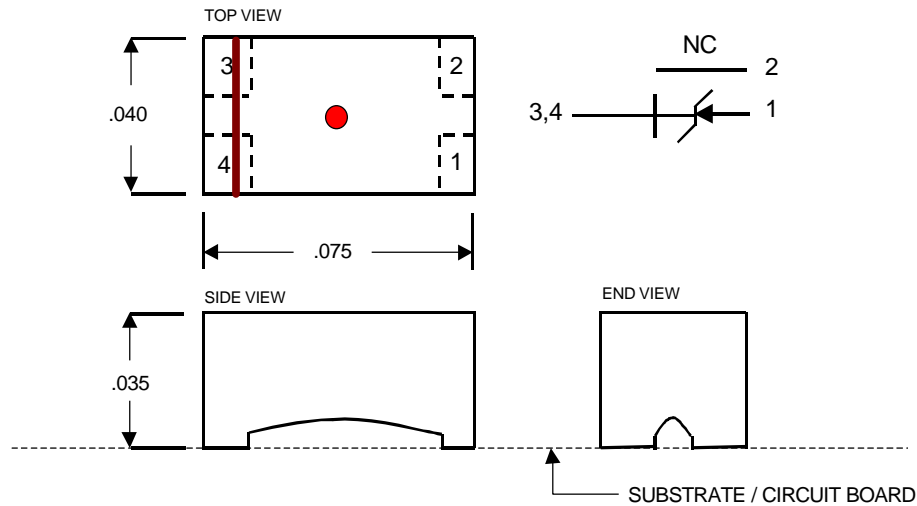
The LDZ970B (untinned) and LDZ970BT (tinned) are zener diodes in very small, rugged, surface mount, 4-post ceramic packages (Micro International manufactured package p/n 4-075-1). The LDZ970B and LDZ970BT meet the general specifications of the 1N970B zener diode. The 4-075-1 Micro-LID package is a 4-post, leadless ceramic carrier which can be provided with gold metallized or pre-tinned lands, and is approved for military, medical implant, sensor, and high reliability applications. Other 24.0 volt zener diodes with different tolerance and current characteristics are available upon request.

Maximum Ratings:

Parameter	Symbol	Rating
Zener Voltage	V _z	24.0 V
Forward DC Current	I _f	200 mA
Zener Current	I _z	50 mA
Total Dissipation	P _t	350 mW
Operating Junction Temperature	T _j	150°C
Storage Temperature	T _{stg}	-65°C to 150°C
Operating Temperature	T _{oper}	-55°C to 125°C

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Outline / Schematic:



Dimensions / Marking:

Length	.075" \pm .003"	Post 1 (Anode)	.015" x .010" typ
Width	.040" \pm .003"	Post 2 (NC)	.015" x .010" typ
Height	.035" \pm .003"	Post 3,4 (Cathode)	.015" x .012" typ

Marking on back of package : Brown Stripe over Cathode and Red Dot
(post down configuration) in Center

Standard In-Process Screening Requirements:

- Semiconductor die and Micro-LID package visual inspection
- Wire pull test
- 24 hour stabilization bake at 150°C
- 10 temperature cycles from -55°C to 125°C
- 100% electrical test of dc characteristics at 25°C
- Final visual inspection

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Electrical Characteristics (25°C Ambient)

Parameter	Symbol	Min	Typ	Max	Units
Zener Voltage I _z = 5.2 mA	V _z	22.80	24.0	25.20	V
Reverse Current V _r = 18.2 V	I _r	--	--	100	nA
Zener Impedance I _{zt} = 5.2 mA	Z _{zt}	--	--	33	Ohms

* Pulse test, pulse width ≤ 300 usec, duty cycle ≤ 2%
