PRODUCT DATA

Micro International, Inc

PART NUMBER

LDZ749A and LDZ749AT

Micro-LID Zener Diode

Micro International, Inc.
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Nashville, TN 37221

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Micro-LID Zener Diodes
LDZ749A and LDZ749AT

Description:

The LDZ749A (untinned) and LDZ749AT (tinned) are zener diodes in very small, rugged, surface mount, 4-post ceramic packages (Micro International manufactured package p/n 4-075-1). The LDZ749A and LDZ749AT meet the general specifications of the 1N749A 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 4.3 volt zener diodes with different tolerance and current characteristics are available upon request.

Maximum Ratings:

Parameter	Symbol	Rating
Zener Voltage	Vz	4.3 V
Forward DC Curren	If	200 mA
Zener Current	Iz	50 mA
Total Dissipation	Pt	350 mW
Operating Junction Temperature	Tj	150°C
Storage Temperature	Tstg	-65°C to 150°C
Operating Temperature	Toper	-55°C to 125°C

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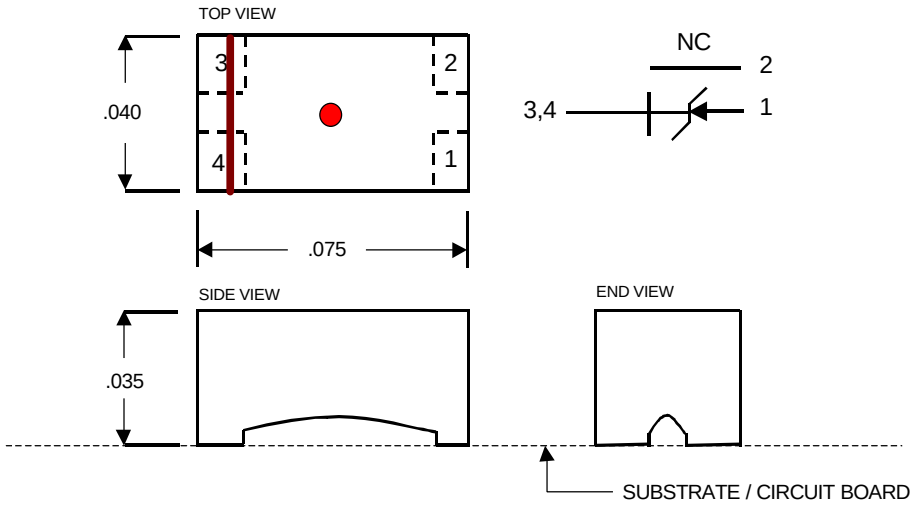
Outline / Schematic:



Dimensions / Marking:

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

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

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 5% Tol.;Iz = 20 mA	Vz	4.08	4.3	4.52	V
Reverse Current Vr = 1 V	Ir	--	--	2	uA
Zener Impedance Izt = 20 mA	Zzt	--	--	22	Ohms

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