CD746A thru CD759A & CD4370A thru CD4372A



Zener Diode Chip Series

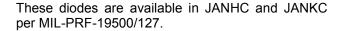
Rev. V4

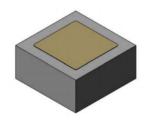
Features

- 0.5 W Capability with Proper Heat Sinking
- Electrically Equivalent to 1N4370A 1N4372A, 1N746A - 1N759A

Description

These 0.5 W zener diodes are electrically equivalent to the 1N4370A - 1N4372A, 1N746A - 1N759A series diodes. They are compatible with all wire bonding and die attach techniques with the exception of solder reflow.





Electrical Specifications: $T_A = +25$ °C (unless otherwise specified)

Part #	Nominal	Zener	Maximum	Maximum		Maximum
	Zener	Test	Zener	Reverse		Zener
	Voltage	Current	Impedance ²	Voltage		Current
	V _z @ I _{zT} ¹	I _{ZT}	Z _{ZT} @ I _{ZT}	I _R @ V _R		I _{ZM}
	V	mA	Ω	μΑ	v	mA
CD4370A CD4371A CD4372A	2.4 2.7 3.0	20	30 30 29	100 75 50	1.0	155 140 125
CD746A CD747A CD748A	3.3 3.6 3.9	20	28 24 23	10 5 5	1.0	120 110 100
CD749A	4.3	20	22	2	1.0	90
CD750A	4.7		19	5	1.5	85
CD751A	5.1		17	5	2.0	75
CD752A	5.6	20	11	5	2.5	70
CD753A	6.2		7	5	3.5	85
CD754A	6.8		5	2	4.0	60
CD755A	7.5	20	6	2	5.0	55
CD756A	8.2		8	1	6.0	50
CD757A	9.1		10	1	7.0	45
CD758A CD759A	10.0 12.0	20	17 30	1	8.0 9.0	40 35

^{1.} Zener voltage range equals nominal voltage ±5% for "A" suffix. No suffix denotes ±10%, "C" suffix = ±2% and "D" suffix = ±1%.

^{2.} Zener impedance is derived by superimposing on I_{ZT} at 60 HZ RMS AC current equal to 10% of I_{ZT} .

^{*} Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.



Zener Diode Chip Series

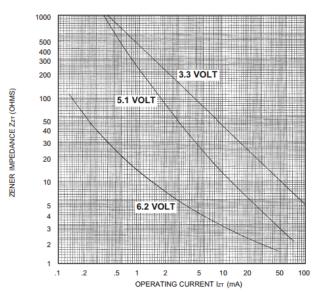
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Absolute Maximum Ratings^{5,6}

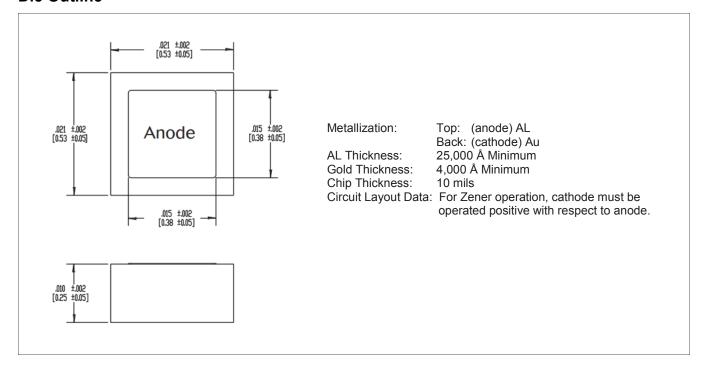
Parameter	Absolute Maximum		
Forward Voltage	1.5 V @ 200 mA		
Operating Temperature	-65°C to +175°C		
Storage Temperature	-65°C to +175°C		

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- MACOM does not recommend sustained operation near these survivability limits.

Zener Impedance vs. Operating Current



Die Outline



CD746A thru CD759A & CD4370A thru CD4372A



Zener Diode Chip Series

Rev. V4

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