NEW

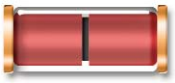
Silicon Zener Diode Series

1N746AUR thru 1N759AUR, 1N4370AUR thru 1N4372AUR, CDLL746A thru CDLL759A & CDLL4370A thru CDLL4372A

AEROFLEX
A passion for performance.

Features

- Available in JAN, JANTX and JANTXV per MIL-PRF-19500/127
- Leadless Package for Surface Mount
- Metallurgically Bonded



Maximum Ratings

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
DC Power Dissipation: 500 mW @ T_{EC} = +125°C
Power Derating: 10 mW / °C above T_{EC} = +125°C
Forward Voltage @ 200mA: 1.1 volts maximum

Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE NUMBER (NOTE 1)	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT}	ZENER TEST CURRENT I_{ZT} (NOTE 2)	MAXIMUM ZENER IMPEDANCE (NOTE 3) Z_{ZT}@ I_{ZT}	MAXIMUM REVERSE CURRENT I_R @ V_R		MAXIMUM ZENER CURRENT I_{ZM}
	VOLTS	mA	OHMS	µA	VOLTS	mA
CDLL4370A	2.4	20	30	100	1.0	155
CDLL4371A	2.7	20	30	60	1.0	140
CDLL4372A	3.0	20	29	30	1.0	125
CDLL746A	3.3	20	28	5	1.0	120
CDLL747A	3.6	20	24	3	1.0	110
CDLL748A	3.9	20	23	2	1.0	100
CDLL749A	4.3	20	22	2	1.0	90
CDLL750A	4.7	20	19	5	1.5	85
CDLL751A	5.1	20	17	5	2.0	75
CDLL752A	5.6	20	11	5	2.5	70
CDLL753A	6.2	20	7	5	3.5	65
CDLL754A	6.8	20	5	2	4.0	60
CDLL755A	7.5	20	6	2	5.0	55
CDLL756A	8.2	20	8	1	6.0	50
CDLL757A	9.1	20	10	1	7.0	45
CDLL758A	10.0	20	17	1	8.0	40
CDLL759A	12.0	20	30	1	9.0	35

NOTE 1: Zener voltage tolerance on "A" suffix is ±5%. No Suffix denotes ±10% tolerance, "C" suffix denotes ±2% tollerance and "D" suffix denotes ±1% tolerance.

NOTE 2: Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of 25°C ± 3°C.

NOTE 3: Zener impedance is derived by superimposing on I_{ZT} A 60Hz rms a.c. current equal to 10% of I_{ZT}

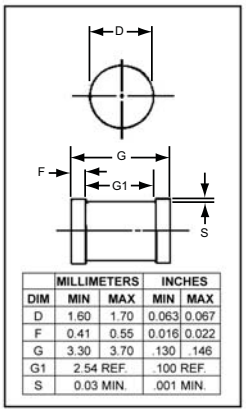
AEROFLEX
METELICS

Revision Date: 11/4/2009
New Product

AEROFLEX METELICS

1N746AUR thru 1N759AUR, 1N4370AUR thru 1N4372AUR, CDLL746A thru CDLL759A & CDLL4370A thru CDLL4372A

Outline Drawing



	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
D	1.60	1.70	0.063	0.067
F	0.41	0.55	0.016	0.022
G	3.30	3.70	.130	.146
G1	2.54 REF.		.100 REF.	
S	0.03 MIN.		.001 MIN.	

LEADED DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JEC}$): 100 °C/W maximum at L = 0 inch

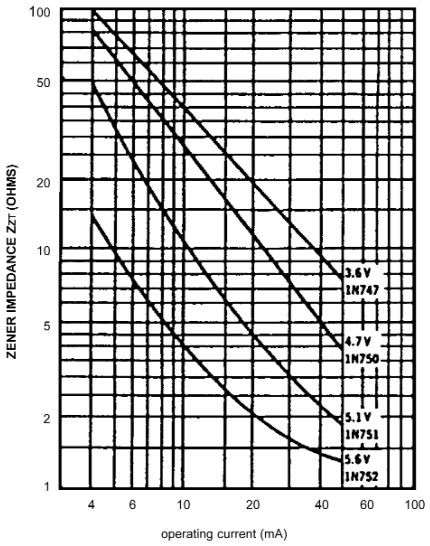
THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 25 °C/W maximum

POLARITY: Diode to be operated with the banded (cathode) end positive.

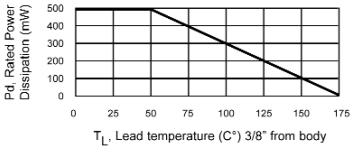
MOUNTING POSITION: Any.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6 PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.

Graphs



ZENER IMPEDANCE VS. OPERATING CURRENT



POWER DERATING CURVE

Aeroflex / Metelics, Inc.

975 Stewart Drive,
Sunnyvale, CA 94085
Tel: (408) 737-8181
Fax: (408) 733-7645

Sales: 888-641-SEMI (7364)

54 Grenier Field Road,
Londonderry, NH 03053
Tel: (603) 641-3800
Fax: (603)-641-3500

Hi-Rel Components
9 Hampshire Street,
Lawrence, MA 01840
Tel: (603) 641-3800
Fax: (978) 683-3264

www.aeroflex.com/metelics-hirelcomponents

www.aeroflex.com/metelics ***metelics-sales@aeroflex.com***

ISO 9001: 2008 certified companies

AEROFLEX
A passion for performance.

Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.

Revision Date: 11/4/2009