

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

• 1N3821AUR-1 thru 1N3828AUR-1 AVAILABLE IN JAN, JANTX AND JAN-TXV

PER MIL-PRF-19500/115

- LEADLESS PACKAGE FOR SURFACE MOUNT
- DOUBLE PLUG CONSTRUCTION

1N3821AUR-1
thru
1N3828AUR-1
and
CDLL3821 thru CDLL 3828A

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C

Storage Temperature: -65°C to +175°C

DC Power Dissipation: 1 watt @ $T_{EC} = 125^\circ\text{C}$

Power Derating: 20 mW / °C above $T_{EC} = 125^\circ\text{C}$

Forward Voltage @ 200mA = 1.2 volts maximum

ELECTRICAL CHARACTERISTICS @ 25°C

CDI TYPE NUMBER (NOTE 1)	NOMINAL ZENER VOLTAGE $V_Z @ 1Z_T$ (NOTE 3)	ZENER TEST CURRENT $1Z_T$	MAXIMUM ZENER IMPEDANCE		MAX. DC ZENER CURRENT $1Z_M$	MAX. REVERSE LEAKAGE CURRENT $I_R @ V_R$	
			$Z_{ZT} @ 1Z_T$	$Z_{ZK} @ 1Z_K=1\text{mA}$ (NOTE 2)			
			OHMS	OHMS		μA	VOLTS
CDLL3821	3.3	76	10	400	276	100	1
CDLL3821A	3.3	76	10	400	276	100	1
CDLL3822	3.6	69	10	400	252	75	1
CDLL3822A	3.6	69	10	400	252	75	1
CDLL3823	3.9	64	9	400	238	25	1
CDLL3823A	3.9	64	9	400	238	25	1
CDLL3824	4.3	58	9	400	213	5	1
CDLL3824A	4.3	58	9	400	213	5	1
CDLL3825	4.7	53	8	500	194	5	1
CDLL3825A	4.7	53	8	500	194	5	1
CDLL3826	5.1	49	7	550	178	3	1
CDLL3826A	5.1	49	7	550	178	3	1
CDLL3827	5.6	45	5	600	162	3	2
CDLL3827A	5.6	45	5	600	162	3	2
CDLL3828	6.2	41	2	700	146	3	3
CDLL3828A	6.2	41	2	700	146	3	3

NOTE 1 No suffix = $\pm 10\%$ tolerance on nominal Zener voltage, suffix "A" signifies $\pm 5\%$, "C" suffix signifies $\pm 2\%$ and "D" suffix signifies $\pm 1\%$.

NOTE 2 Zener impedance is derived by superimposing on $1Z_T$ A 60Hz rms a.c. current equal to 10% of $1Z_T$.

NOTE 3 Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of $25^\circ\text{C} \pm 3^\circ\text{C}$.

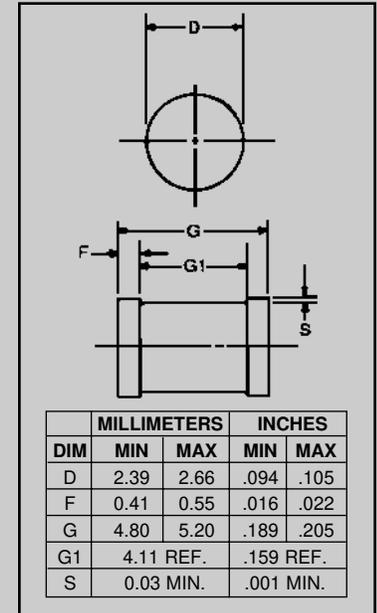


FIGURE 1

DESIGN DATA

CASE: DO-213AB, Hermetically sealed glass case. (MELF, LL41)

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\theta JEC}$): 50 °C/W maximum at L = 0 inch

THERMAL IMPEDANCE: ($Z_{\theta JX}$): 15 °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 +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.

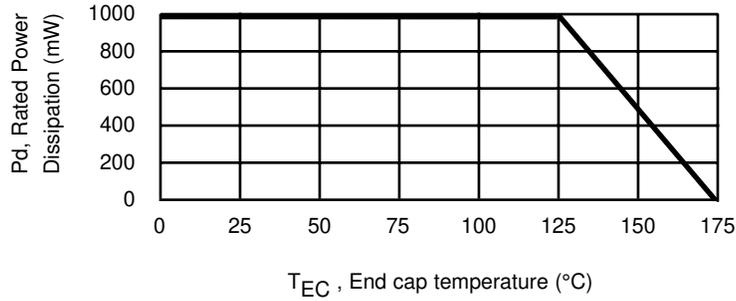


6 LAKE STREET, LAWRENCE, MASSACHUSETTS 01841
PHONE (978) 620-2600
WEBSITE: <http://www.microsemi.com>

FAX (978) 689-0803

1N3821AUR-1 thru 1N3828AUR-1 and CDLL3821A thru CDLL3828A

FIGURE 2



POWER DERATING CURVE

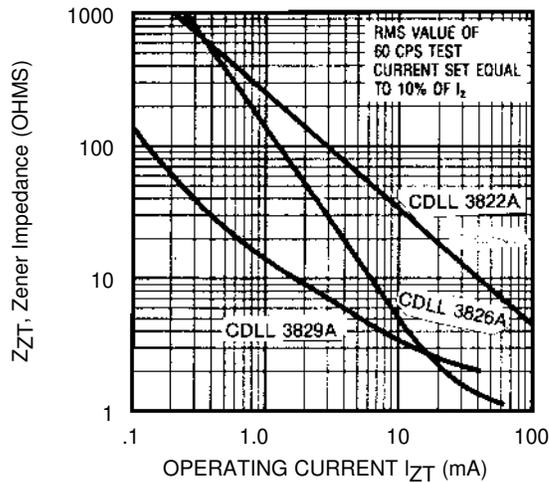


FIGURE 3
ZENER IMPEDANCE
VS.
OPERATING CURRENT