

- LEADLESS PACKAGE FOR SURFACE MOUNT
- DOUBLE PLUG CONSTRUCTION

CDLL3821 thru CDLL3830A

MAXIMUM RATINGS

Operating Temperature: -65°C to $+200^{\circ}\text{C}$
 Storage Temperature: -65°C to $+200^{\circ}\text{C}$
 DC Power Dissipation: 1 watt @ 250°C
 Power Derating: 6.67 mW/ $^{\circ}\text{C}$ above 25°C
 Forward Voltage at 200mA = 1.5 volts maximum

ELECTRIAL CHARACTERISTICS @ 25°C

CDI TYPE NUMBER (Note 1)	NOMINAL ZENER VOLTAGE $V_Z @ I_{ZT}$ (Note 2)	ZENER TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE (Note 3)		MAXIMUM ZENER CURRENT I_{ZM}	MAXIMUM REVERSE LEAKAGE CURRENT $I_R @ V_R$	
			$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$			
			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	100	1
CDLL3822A	3.6	69	10	400	252	100	1
CDLL3823	3.9	64	9	400	238	50	1
CDLL3823A	3.9	64	9	400	238	50	1
CDLL3824	4.3	58	9	400	213	10	1
CDLL3824A	4.3	58	9	400	213	10	1
CDLL3825	4.7	53	8	500	194	10	1
CDLL3825A	4.7	53	8	500	194	10	1
CDLL3826	5.1	49	7	550	178	10	1
CDLL3826A	5.1	49	7	550	178	10	1
CDLL3827	5.6	45	5	600	162	10	2
CDLL3827A	5.6	45	5	600	162	10	2
CDLL3828	6.2	41	2	700	146	10	3
CDLL3828A	6.2	41	2	700	146	10	3
CDLL3829	6.8	37	1.5	500	133	10	3
CDLL3829A	6.8	37	1.5	500	133	10	3
CDLL3830	7.5	34	1.5	250	121	10	3
CDLL3830A	7.5	34	1.5	250	121	10	3

- NOTE 1** No suffix signifies $\pm 20\%$ tolerance on nominal zener voltage, suffix A signifies $\pm 10\%$ and suffix "B" signifies $\pm 5\%$ tolerance.
- NOTE 2** Zener voltage is measured with the device in thermal equilibrium at an ambient temperature of 25°C .
- NOTE 3** Zener impedance is derived by superimposing on I_{ZT} a 60Hz rms a.c. current equal to 10% of I_{ZT} .

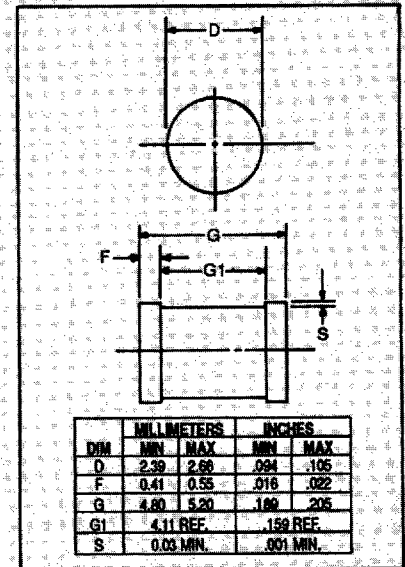


FIGURE 1

DESIGN DATA

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

LEAD FINISH: Tin/Lead

THERMAL RESISTANCE: Junction to END CAP = 50°C/W maximum

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

WEIGHT: 0.2 grams (Typical)

MOUNTING POSITION: Any.

MOUNTING SURFACE SELECTION: The Axial Coefficient Of Expansion (COE) Of this Device Is Approximately $+8\text{PPM}/^{\circ}\text{C}$. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.



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CDLL3821A thru CDLL3830A

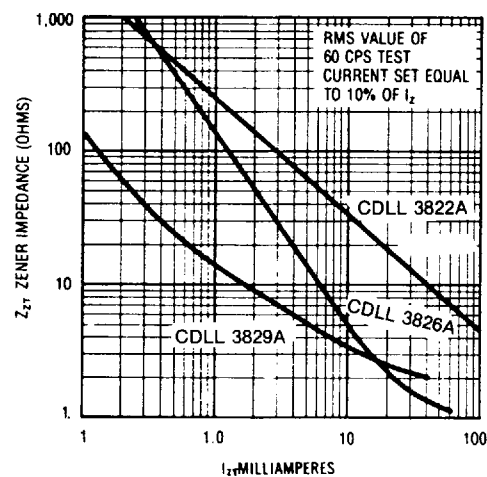
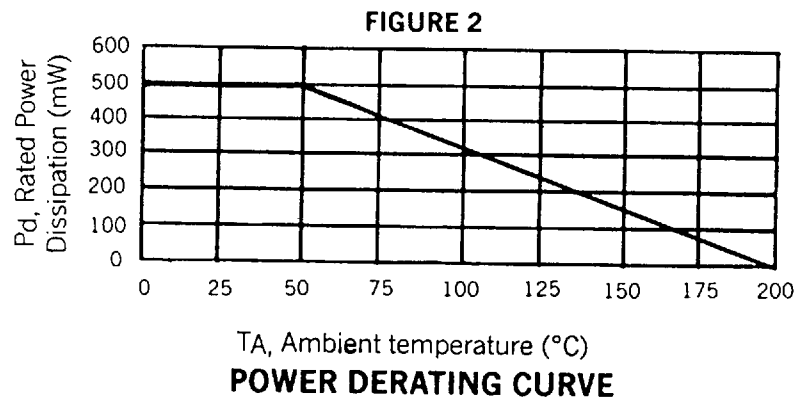


FIGURE 3
TYPICAL ZENER IMPEDANCE vs.
ZENER CURRENT FOR TYPES SHOWN