

- 1.5 WATT ZENER DIODE
- LEADLESS PACKAGE FOR SURFACE MOUNT
- METALLURGICALLY BONDED (-1)
- DOUBLE PLUG CONSTRUCTION

CDLL6485
thru
CDLL6491

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
DC Power Dissipation: 1.5 watts @ 25°C
Power Derating: 10 mW / °C above +25°C
Forward Voltage @ 200mA = 1.0 volts maximum

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

CDI TYPE NO.	NOMINAL ZENER VOLTAGE $V_Z @ I_{ZT}$ (Note 1)	ZENER TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE Z_{ZT} (Note 2)	MAXIMUM REVERSE LEAKAGE CURRENT $I_R @ V_R$		MAXIMUM KNEE IMPEDANCE $Z_{ZK} @ I_{ZK}$ (Note 2)	
	VOLTS	mA	OHMS	μA	VOLTS	OHMS	mA
CDLL6485	3.3	76	10	50	1.0	400	1.0
CDLL6486	3.6	69	10	50	1.0	400	1.0
CDLL6487	3.9	64	9	35	1.0	400	1.0
CDLL6488	4.3	58	9	5	1.0	400	1.0
CDLL6489	4.7	53	8	5	1.0	500	1.0
CDLL6490	5.1	49	7	1	1.0	500	1.0
CDLL6491	5.6	45	5	0.5	2.0	600	1.0

NOTE 1 The CDI type numbers shown above have a standard tolerance of $\pm 5\%$ of the nominal Zener voltage. Nominal Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of $25^\circ\text{C} \pm 3^\circ\text{C}$.

NOTE 2 Zener impedance is derived by superimposing on I_{ZT} or I_{ZK} , a 60Hz rms a.c. current equal to 10% of I_{ZT} or I_{ZK} .

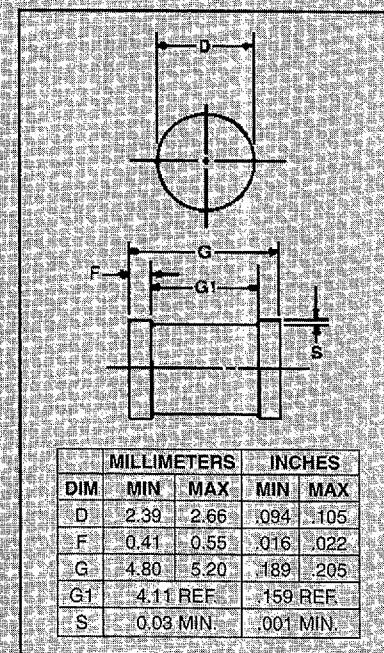


FIGURE 1

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.

MOUNTING POSITION: Any.

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



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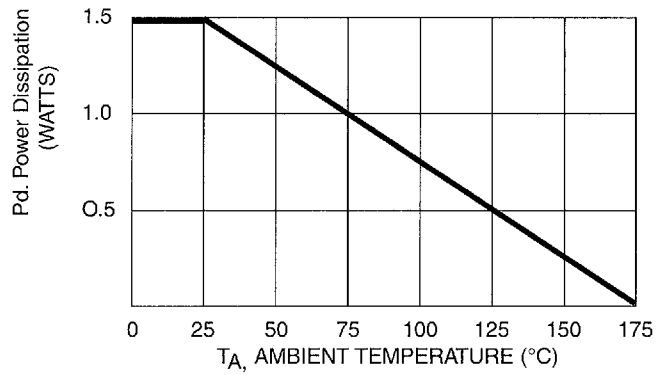
E-mail: mail@cdi-diodes.com

115

2302554 0000873 50T

CDLL6485 thru CDLL6491

FIGURE 2



POWER DERATING CURVE

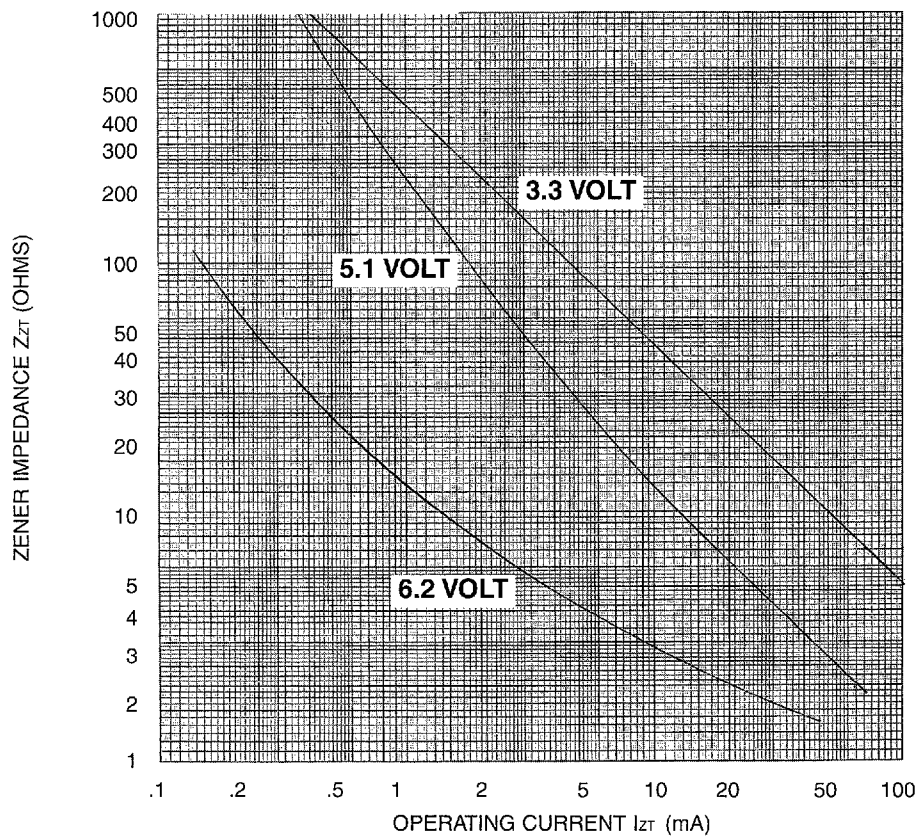


FIGURE 3

ZENER IMPEDANCE VS. OPERATING CURRENT