- **ZENER DIODE CHIPS**
- **ALL JUNCTIONS COMPLETELY PROTECTED WITH SILICON DIOXIDE**
- **COMPATIBLE WITH ALL WIRE BONDING DIE ATTACH TECHNIQUES**
- **1.5 WATT CAPABILITY WITH PROPER HEAT SINKING**

CD6485 thru CD6491

MAXIMUM RATINGS

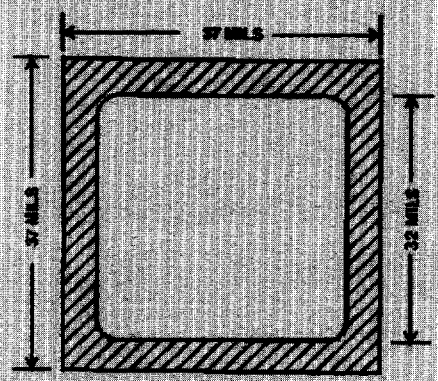
Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
Forward Voltage @ 200mA = 1.5 volts maximum

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
CD6485	3.3	76	10	50	1.0	400	1.0
CD6486	3.6	69	10	50	1.0	400	1.0
CD6487	3.9	64	9	35	1.0	400	1.0
CD6488	4.3	58	9	5	1.0	400	1.0
CD6489	4.7	53	8	5	1.0	500	1.0
CD6490	5.1	49	7	1	1.0	500	1.0
CD6491	5.6	45	5	0.5	2.0	600	1.0

NOTE 1 The CDI type numbers shown above have a standard tolerance of ± 5% of the nominal Zener voltage. Zener voltage is read using a pulse measurement, 10 milliseconds maximum.

NOTE 2 Zener impedance is derived by superimposing on Izt or Izk, a 60Hz rms a.c. current equal to 10% of Izt or Izk.



BACKSIDE IS CATHODE
FIGURE 1

DESIGN DATA

METALLIZATION:
Top: (Anode)..... Al
Back: (Cathode)..... Au

AL THICKNESS.....25,000 Å Min

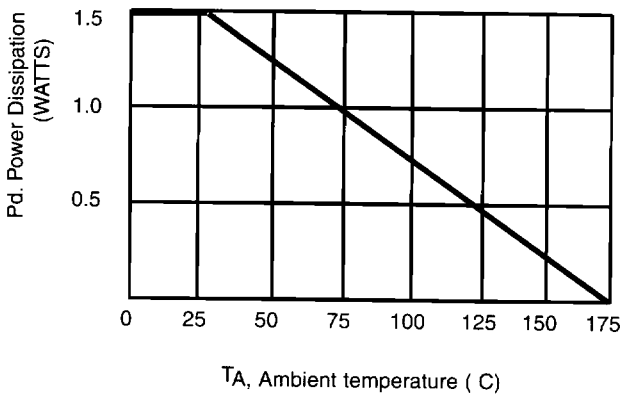
GOLD THICKNESS.....4,000 Å Min

CHIP THICKNESS.....10 Mils

TOLERANCES: ALL
Dimensions ± 2 mils

COMPENSATED DEVICES INCORPORATED
166 TREMONT STREET, MELROSE, MASSACHUSETTS 02176
PHONE (617) 665-1071 FAX (617) 665-7379
WWWSITE: http://www.cdi-diodes.com E-mail: mail@cdi-diodes.com

FIGURE 2



POWER DERATING CURVE

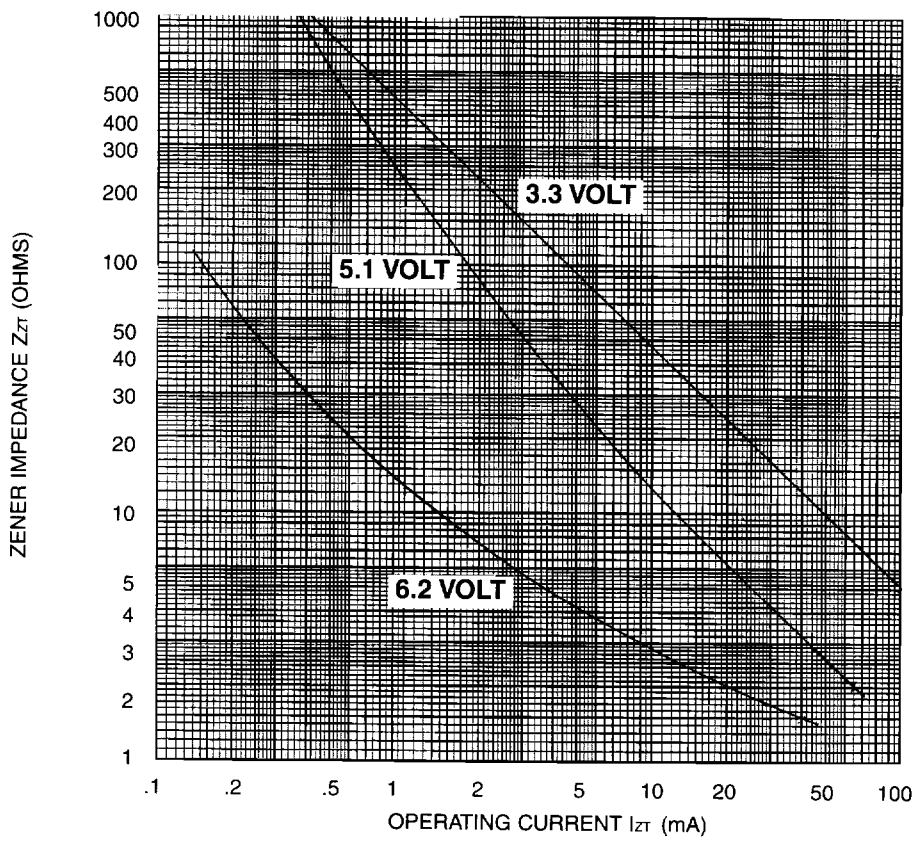


FIGURE 3

ZENER IMPEDANCE VS. OPERATING CURRENT