- **AVAILABLE IN JAN, JANTX, JANTXV, AND JANS PER MIL-PRF-19500/406**
- **1.5 WATT ZENER DIODES**
- **NON CAVITY CONSTRUCTION**
- **METALLURGICALLY BONDED**

1N6485 THRU 1N6491 AND 1N4460 AND 1N4461

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +200°C
Power Dissapation: 1.5W @ T_A=+25°C
Power Derating: 10mW/°C above T_A=+25°C
Forward Voltage: 1.0 V dc @ I_F=200mA dc
1.5 V dc @ I_F=1A dc

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE	ZENER VOLTAGE ±5% V_Z	TEST CURRENT I_{ZT}	DYNAMIC IMPEDENCE (MAX.) Z_{ZT}@I_{ZT}	KNEE IMPEDENCE (MAX.) Z_{ZK}@I_{ZT}	TEST CURRENT I_{ZK}	REVERSE CURRENT (MAX.) I_R@V_R	TEST VOLTAGE V_R	MAXIMUM CURRENT I_{ZM}	$V_{Z\ (REG)}$ ΔV_Z	MAXIMUM SURGE
	VOLTS	mA	OHMS	OHMS	mA	μ A	VOLTS	MA	VOLTS	AMPS
1N6485	3.3	76.0	10	400	1.0	50	1.0	433	.90	4.2
1N6486	3.6	69.0	10	400	1.0	50	1.0	397	.80	3.9
1N6487	3.9	64.0	9	400	1.0	35	1.0	366	.75	3.6
1N6488	4.3	58.0	9	400	1.0	5.0	1.0	332	.70	3.3
1N6489	4.7	53.0	8	500	1.0	4.0	1.0	304	.60	3.0
1N6490	5.1	49.0	7	500	1.0	1.0	1.0	280	.50	2.7
1N6491	5.6	45.0	5	600	1.0	0.5	2.0	255	.40	2.5
1N4460	6.2	40.0	4	200	1.0	10.0	3.72	230	.35	2.3
1N4461	6.8	37.0	2.5	200	1.0	5.0	4.08	210	.30	2.1

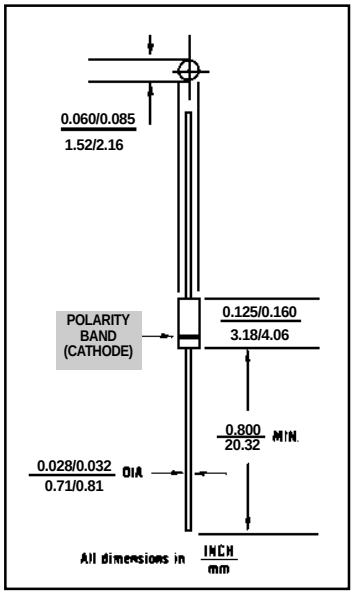


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, Glass "A" Body per MIL-PRF- 19500/406 D-5A

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JL}$): 42 °C/W maximum at L = .375

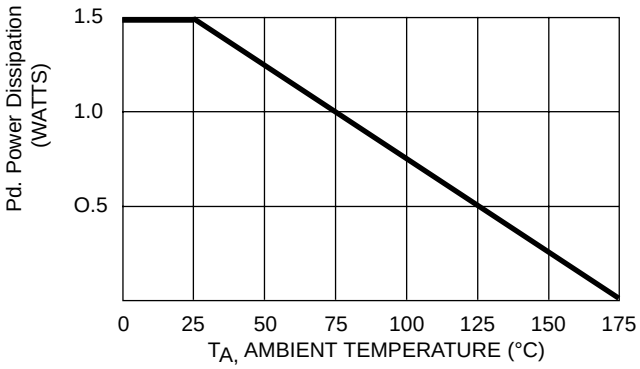
THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 4.5 °C/W maximum

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

MOUNTING POSITION: Any

COMPENSATED DEVICES INCORPORATED
22 COREY STREET, MELROSE, MASSACHUSETTS 02176
PHONE (781) 665-1071 FAX (781) 665-7379
WEBSITE: http://www.cdi-diodes.com E-mail: mail@cdi-diodes.com

FIGURE 2



POWER DERATING CURVE

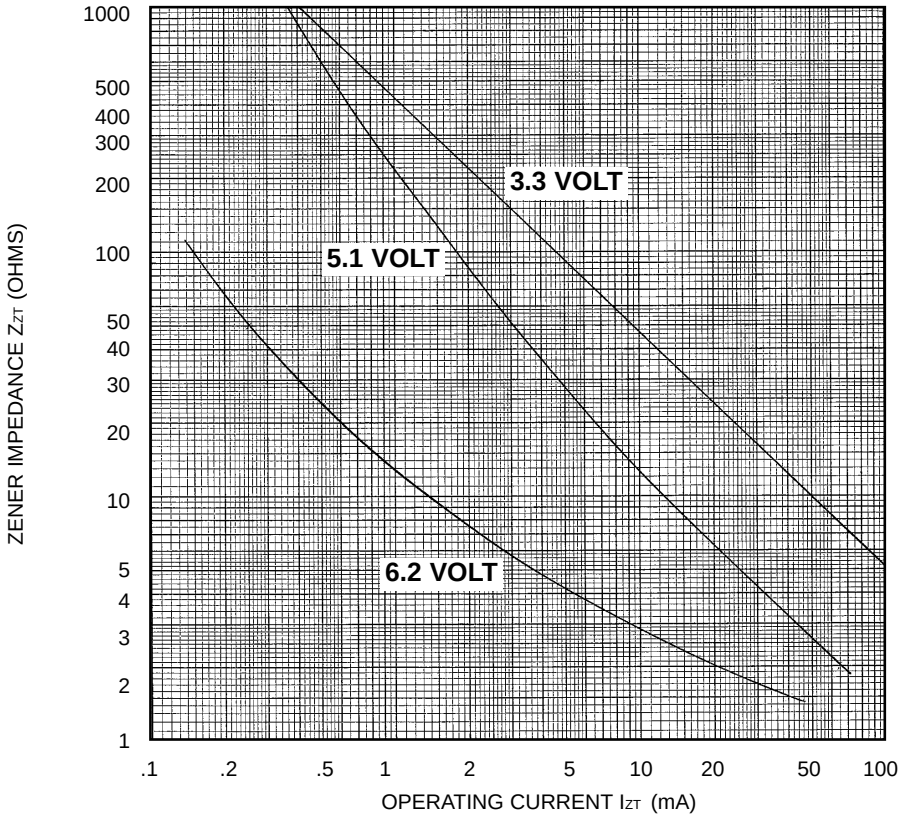


FIGURE 3

ZENER IMPEDANCE VS. OPERATING CURRENT