

New Jersey Semi-Conductor Products, Inc.

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- 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 Dissipation: 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	μA	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

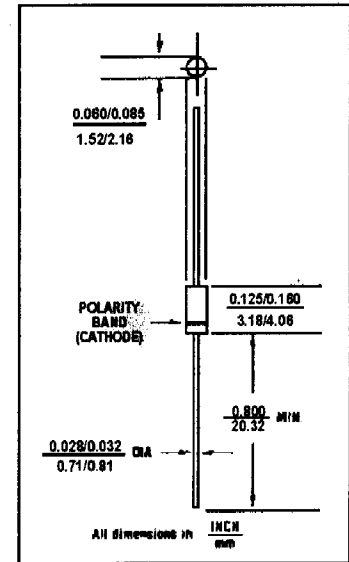


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed, Glass "A"
Body

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: (R_{ΘJL}): 42
°C/W maximum at L = .375

THERMAL IMPEDANCE: (Z_{ΘJX}): 4.5
°C/W maximum

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

MOUNTING POSITION: Any



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