- **1N4565A-1 THRU 1N4584A-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/452**
- **6.4 VOLT NOMINAL ZENER VOLTAGE ± 5%**
- **TEMPERATURE COMPENSATED ZENER REFERENCE DIODES**
- **METALLURGICALLY BONDED**

1N4565 thru 1N4584A and 1N4565A-1 thru 1N4584A-1

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
DC Power Dissipation: 500mW @ +50°C
Power Derating: 4 mW / °C above +50°C

REVERSE LEAKAGE CURRENT

I_R = 2μA @ 25°C & V_R = 3Vdc

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

JEDEC TYPE NUMBER	ZENER TEST CURRENT	EFFECTIVE TEMPERATURE COEFFICIENT	VOLTAGE TEMPERATURE STABILITY (ΔV_{ZT} MAX) (Note 1)	TEMPERATURE RANGE	MAX. DYNAMIC ZENER IMPEDANCE (Note 2)
	mA	%/°C	mV	°C	OHMS
1N4565 1N4565A	.5 .5	.01 .01	48 100	0 to + 75°C -55 to + 100°C	200 200
1N4566 1N4566A	.5 .5	.005 .005	24 50	0 to + 75°C -55 to + 100°C	200 200
1N4567 1N4567A	.5 .5	.002 .002	10 20	0 to + 75°C -55 to + 100°C	200 200
1N4568 1N4568A	.5 .5	.001 .001	5 10	0 to + 75°C -55 to + 100°C	200 200
1N4569 1N4569A	.5 .5	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	200 200
1N4570 1N4570A	1.0 1.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	100 100
1N4571 1N4571A	1.0 1.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	100 100
1N4572 1N4572A	1.0 1.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	100 100
1N4573 1N4573A	1.0 1.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	100 100
1N4574 1N4574A	1.0 1.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	100 100
1N4575 1N4575A	2.0 2.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	50 50
1N4576 1N4576A	2.0 2.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	50 50
1N4577 1N4577A	2.0 2.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	50 50
1N4578 1N4578A	2.0 2.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	50 50
1N4579 1N4579A	2.0 2.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	50 50
1N4580 1N4580A	4.0 4.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	25 25
1N4581 1N4581A	4.0 4.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	25 25
1N4582 1N4582A	4.0 4.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	25 25
1N4583 1N4583A	4.0 4.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	25 25
1N4584 1N4584A	4.0 4.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	25 25

NOTE 1 The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the specified mV at any discrete temperature between the established limits, per JEDEC standard No.5.

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

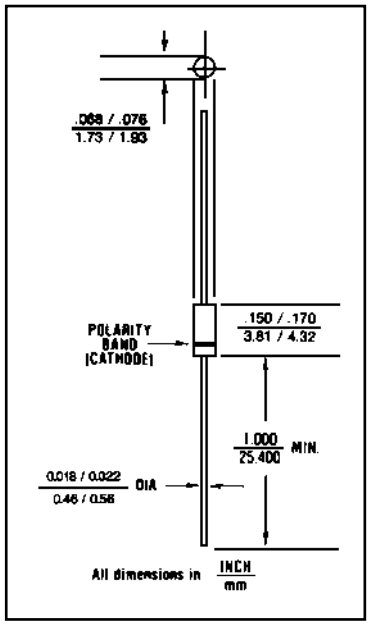


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case. DO – 35 outline.

LEAD MATERIAL: Copper clad steel.

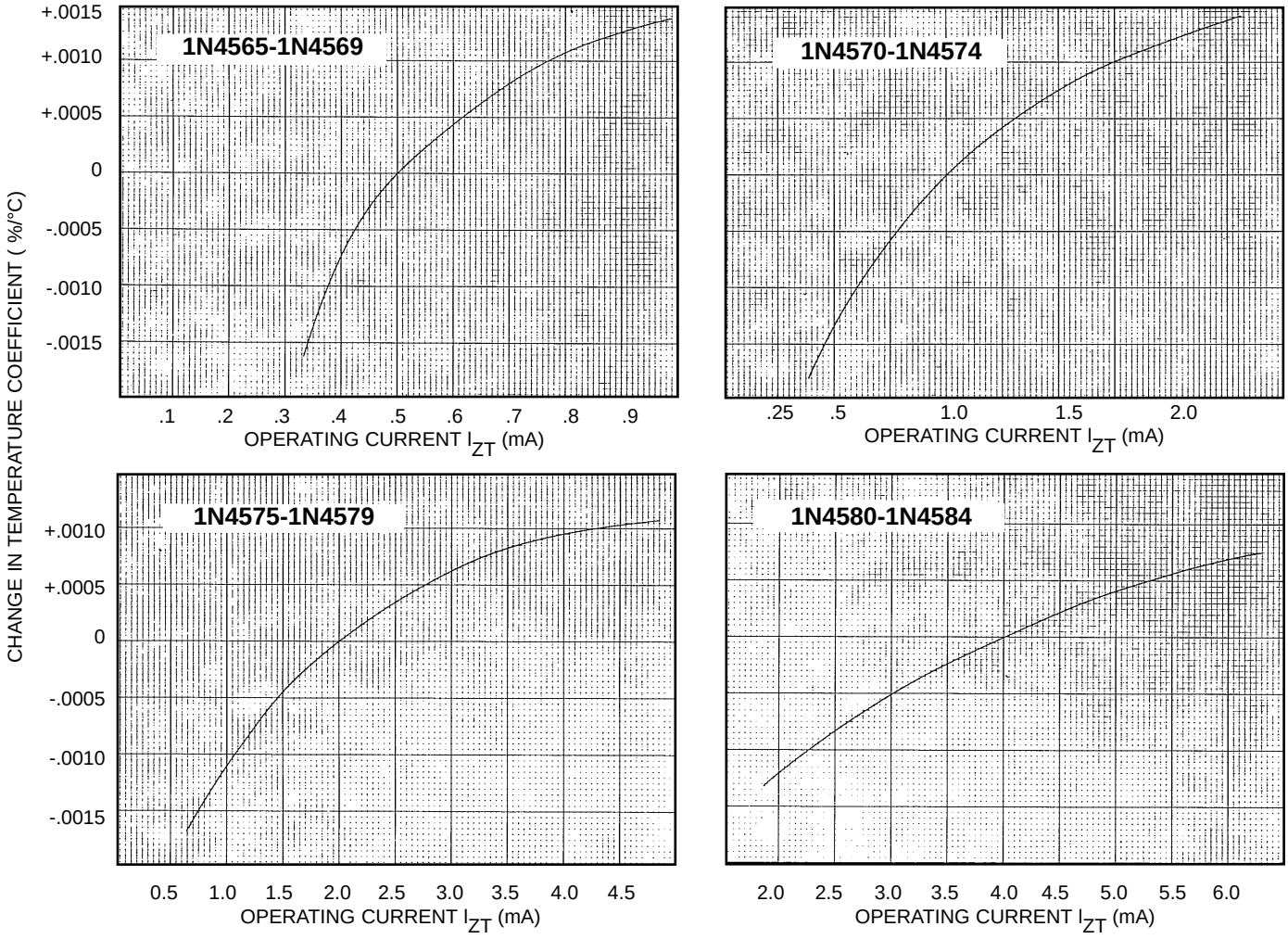
LEAD FINISH: Tin / Lead

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

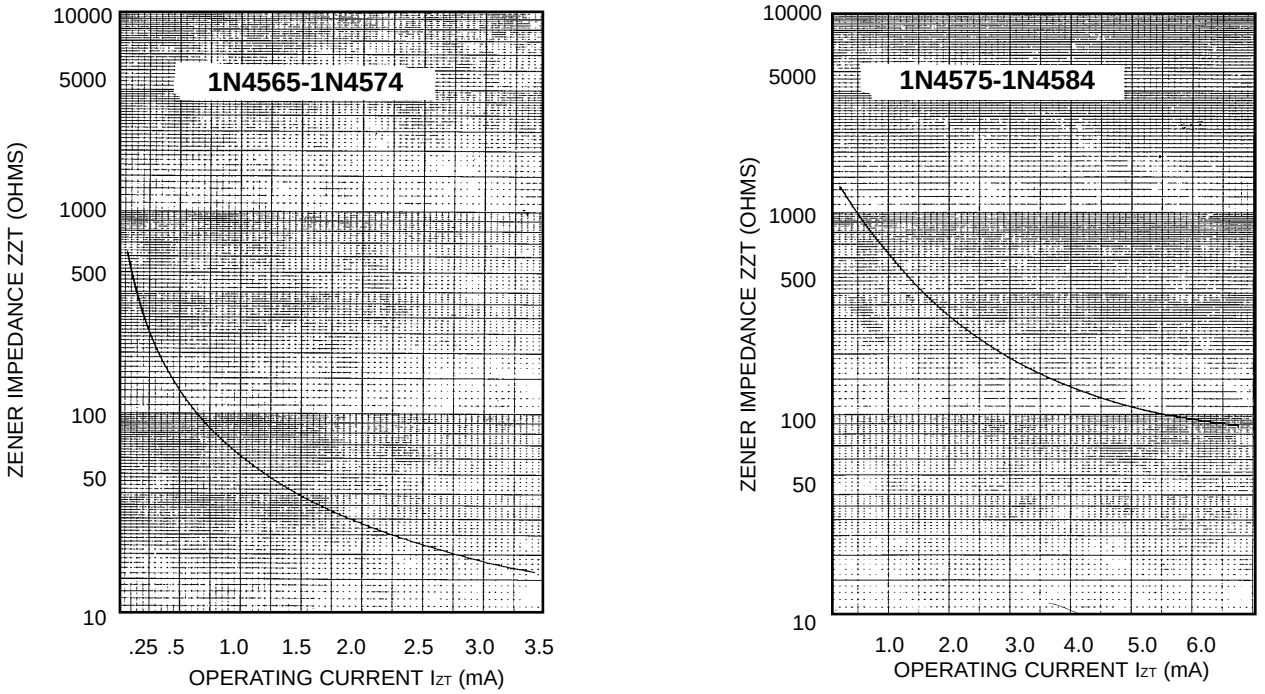
MOUNTING POSITION: ANY.

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

1N4565 thru 1N4584A
INCLUDING -1 VERSIONS



TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT



ZENER IMPEDANCE VS. OPERATING CURRENT