- **12.8 VOLT NOMINAL ZENER VOLTAGE ± 5%**
- **TEMPERATURE COMPENSATED ZENER REFERENCE DIODES**
- **LOW NOISE**
- **METALLURGICALLY BONDED**
- **DOUBLE PLUG CONSTRUCTION**

1N4896
thru
1N4915A

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 = 15 μ A @ 25°C & V_R = 8Vdc

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

JEDEC TYPE NUMBER	TEST CURRENT I_{ZT} (Note 3)	VOLTAGE TEMPERATURE STABILITY ΔV_{ZT} (Note 2)	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT	MAXIMUM DYNAMIC IMPEDANCE Z_{ZT} (Note 1)	MAXIMUM NOISE DENSITY N_D
	mA	mV	°C	%/°C	OHMS	$\mu V/\sqrt{Hz}$
1N4896	0.5	96	+25 to +100	0.01	400	0.8
1N4896A	0.5	198	-55 to +100	0.01	400	0.8
1N4897	0.5	48	+25 to +100	0.005	400	0.8
1N4897A	0.5	99	-55 to +100	0.005	400	0.8
1N4898	0.5	19	+25 to +100	0.002	400	0.8
1N4898A	0.5	40	-55 to +100	0.002	400	0.8
1N4899	0.5	10	+25 to +100	0.001	400	0.8
1N4899A	0.5	20	-55 to +100	0.001	400	0.8
1N4900	1.0	96	+25 to +100	0.01	200	0.4
1N4900A	1.0	198	-55 to +100	0.01	200	0.4
1N4901	1.0	48	+25 to +100	0.005	200	0.4
1N4901A	1.0	99	-55 to +100	0.005	200	0.4
1N4902	1.0	19	+25 to +100	0.002	200	0.4
1N4902A	1.0	40	-55 to +100	0.002	200	0.4
1N4903	1.0	10	+25 to +100	0.001	200	0.4
1N4903A	1.0	20	-55 to +100	0.001	200	0.4
1N4904	2.0	96	+25 to +100	0.01	100	0.25
1N4904A	2.0	198	-55 to +100	0.01	100	0.25
1N4905	2.0	48	+25 to +100	0.005	100	0.25
1N4905A	2.0	99	-55 to +100	0.005	100	0.25
1N4906	2.0	19	+25 to +100	0.002	100	0.25
1N4906A	2.0	40	-55 to +100	0.002	100	0.25
1N4907	2.0	10	+25 to +100	0.001	100	0.25
1N4907A	2.0	20	-55 to +100	0.001	100	0.25
1N4908	4.0	96	+25 to +100	0.01	50	0.22
1N4908A	4.0	198	-55 to +100	0.01	50	0.22
1N4909	4.0	48	+25 to +100	0.005	50	0.22
1N4909A	4.0	99	-55 to +100	0.005	50	0.22
1N4910	4.0	19	+25 to +100	0.002	50	0.22
1N4910A	4.0	40	-55 to +100	0.002	50	0.22
1N4911	4.0	10	+25 to +100	0.001	50	0.22
1N4911A	4.0	20	-55 to +100	0.001	50	0.22
1N4912	7.5	96	+25 to +100	0.01	25	0.20
1N4912A	7.5	198	-55 to +100	0.01	25	0.20
1N4913	7.5	48	+25 to +100	0.005	25	0.20
1N4913A	7.5	99	-55 to +100	0.005	25	0.20
1N4914	7.5	19	+25 to +100	0.002	25	0.20
1N4914A	7.5	40	-55 to +100	0.002	25	0.20
1N4915	7.5	10	+25 to +100	0.001	25	0.20
1N4915A	7.5	20	-55 to +100	0.001	25	0.20

NOTE 1 Zener impedance is derived by superimposing on I_{ZT} A 60Hz rms a.c. current equal to 10% of I_{ZT}.

NOTE 2 The maximum allowable change observed over the entire temperature range, per JEDEC standard No.5.

NOTE 3 Zener voltage range equals 12.8 volts ± 5%.

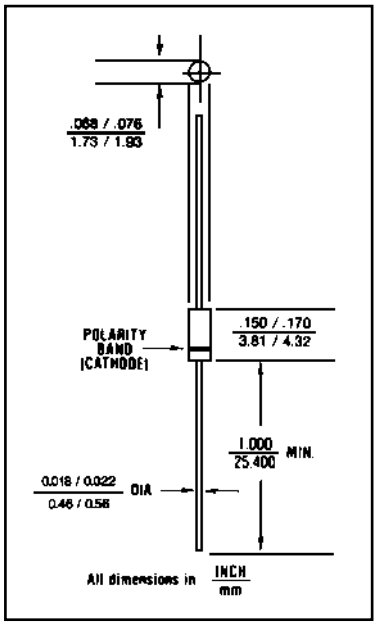

FIGURE 1

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

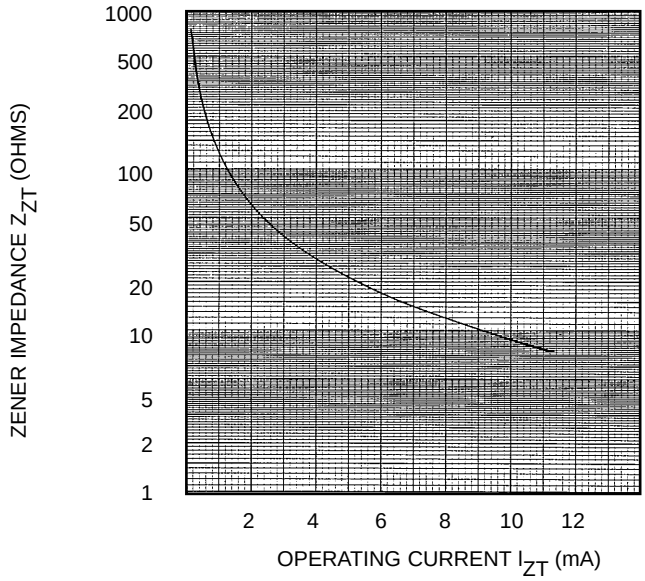

FIGURE 2

ZENER IMPEDANCE VS. OPERATING CURRENT

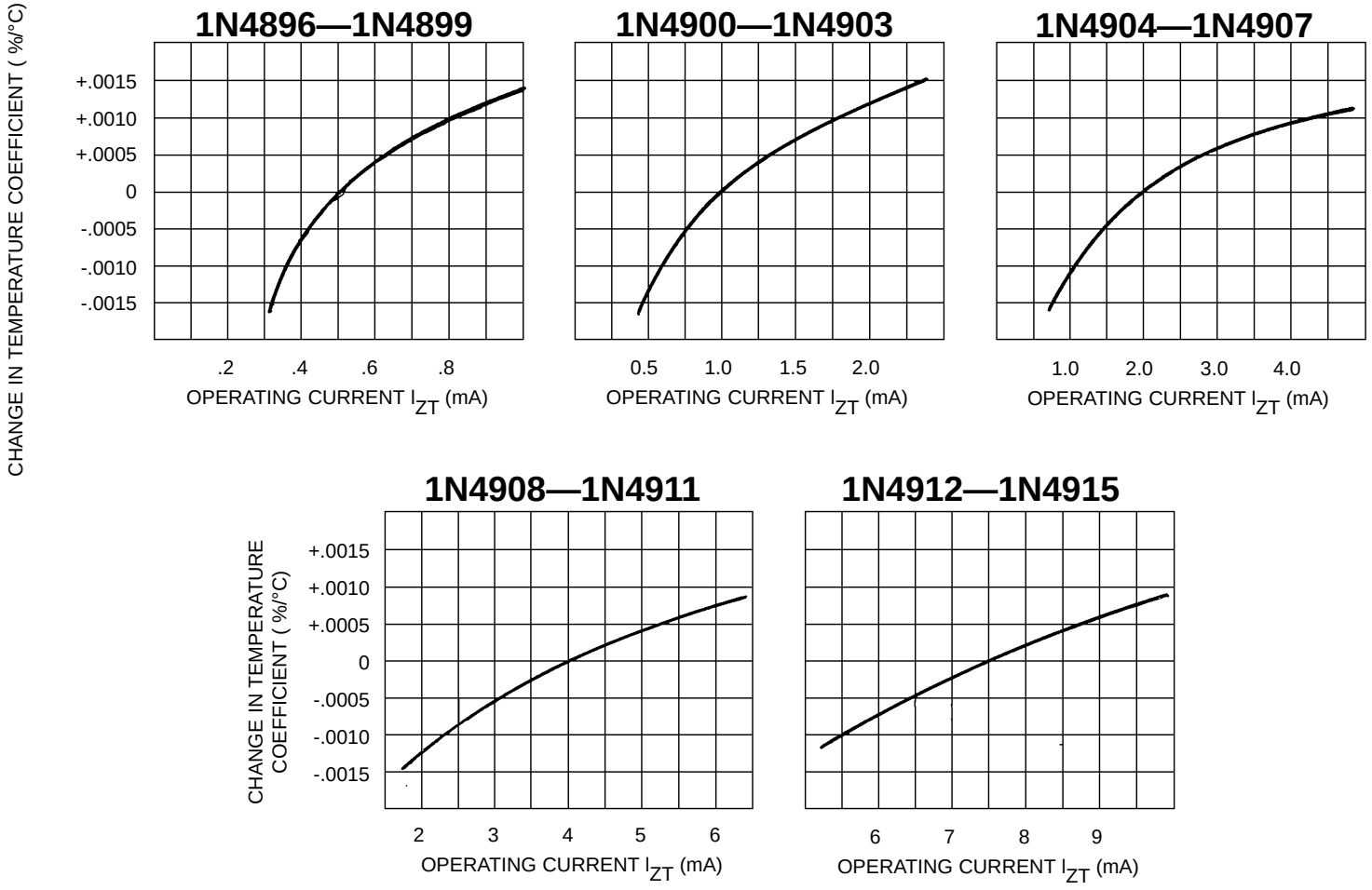

FIGURE 3

TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT