Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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

1N4916
thru
1N4932A

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 μA @ 25°C & V_R = 12Vdc

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise speci½ed.

JEDEC TYPE NUMBER	TEST CURRENT I_{ZT} (Note 3)	VOLTAGE TEMPERATURE STABILITY $^3V_{ZT}$ (Note 2)	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT	MAXIMUM DYNAMIC IMPEDANCE Z_{ZT} (Note 1)	MAXIMUM NOISE DENSITY N_D
	mA	mV	°C	%/°C	OHMS	$\mu V \sqrt{Hz}$
1N4916	0.5	144	+25 to +100	0.01	600	1.0
1N4916A	0.5	298	-55 to +100	0.01	600	1.0
1N4917	0.5	72	+25 to +100	0.005	600	1.0
1N4917A	0.5	149	-55 to +100	0.005	600	1.0
1N4918	0.5	29	+25 to +100	0.002	600	1.0
1N4918A	0.5	60	-55 to +100	0.002	600	1.0
1N4919	1.0	144	+25 to +100	0.01	300	0.5
1N4919A	1.0	298	-55 to +100	0.01	300	0.5
1N4920	1.0	72	+25 to +100	0.005	300	0.5
1N4920A	1.0	149	-55 to +100	0.005	300	0.5
1N4921	1.0	29	+25 to +100	0.002	300	0.5
1N4921A	1.0	60	-55 to +100	0.002	300	0.5
1N4922	2.0	144	+25 to +100	0.01	150	0.25
1N4922A	2.0	298	-55 to +100	0.01	150	0.25
1N4923	2.0	72	+25 to +100	0.005	150	0.25
1N4923A	2.0	149	-55 to +100	0.005	150	0.25
1N4924	2.0	29	+25 to +100	0.002	150	0.25
1N4924A	2.0	60	-55 to +100	0.002	150	0.25
1N4925	4.0	144	+25 to +100	0.01	75	0.22
1N4925A	4.0	298	-55 to +100	0.01	75	0.22
1N4926	4.0	72	+25 to +100	0.005	75	0.22
1N4926A	4.0	149	-55 to +100	0.005	75	0.22
1N4927	4.0	29	+25 to +100	0.002	75	0.22
1N4927A	4.0	60	-55 to +100	0.002	75	0.22
1N4928	4.0	14	+25 to +100	0.001	75	0.22
1N4928A	4.0	30	-55 to +100	0.001	75	0.22
1N4929	7.5	144	+25 to +100	0.01	36	0.20
1N4929A	7.5	298	-55 to +100	0.01	36	0.20
1N4930	7.5	72	+25 to +100	0.005	36	0.20
1N4930A	7.5	149	-55 to +100	0.005	36	0.20
1N4931	7.5	29	+25 to +100	0.002	36	0.20
1N4931A	7.5	60	-55 to +100	0.002	36	0.20
1N4932	7.5	14	+25 to +100	0.001	36	0.20
1N4932A	7.5	30	-55 to +100	0.001	36	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 i.e.,the diode voltage will not exceed the speci½ed mV at any discrete temperature between the established limits, per JEDEC standard No.5.

NOTE 3 Zener voltage range equals 19.2 volts ± 5%.

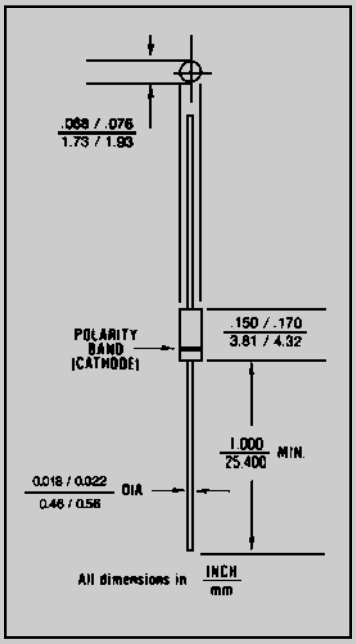

FIGURE 1

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.

Microsemi

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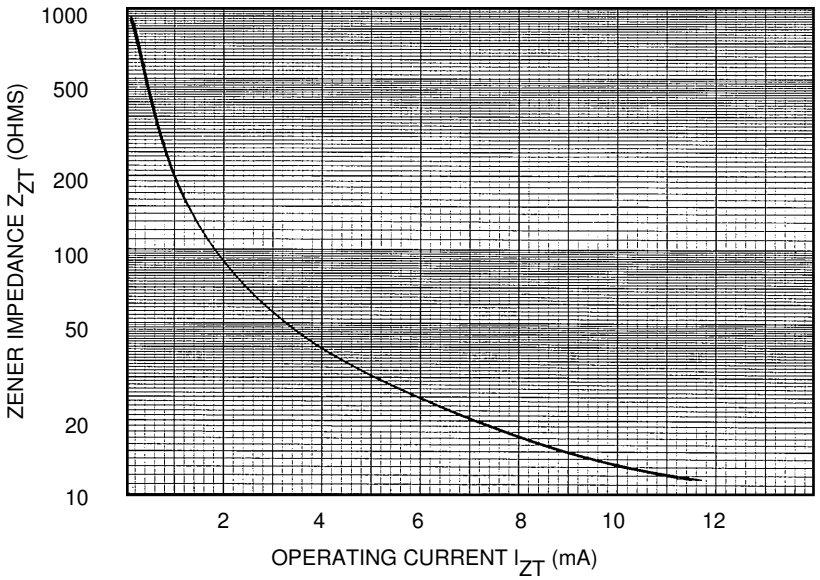

FIGURE 2

ZENER IMPEDANCE VS. OPERATING CURRENT

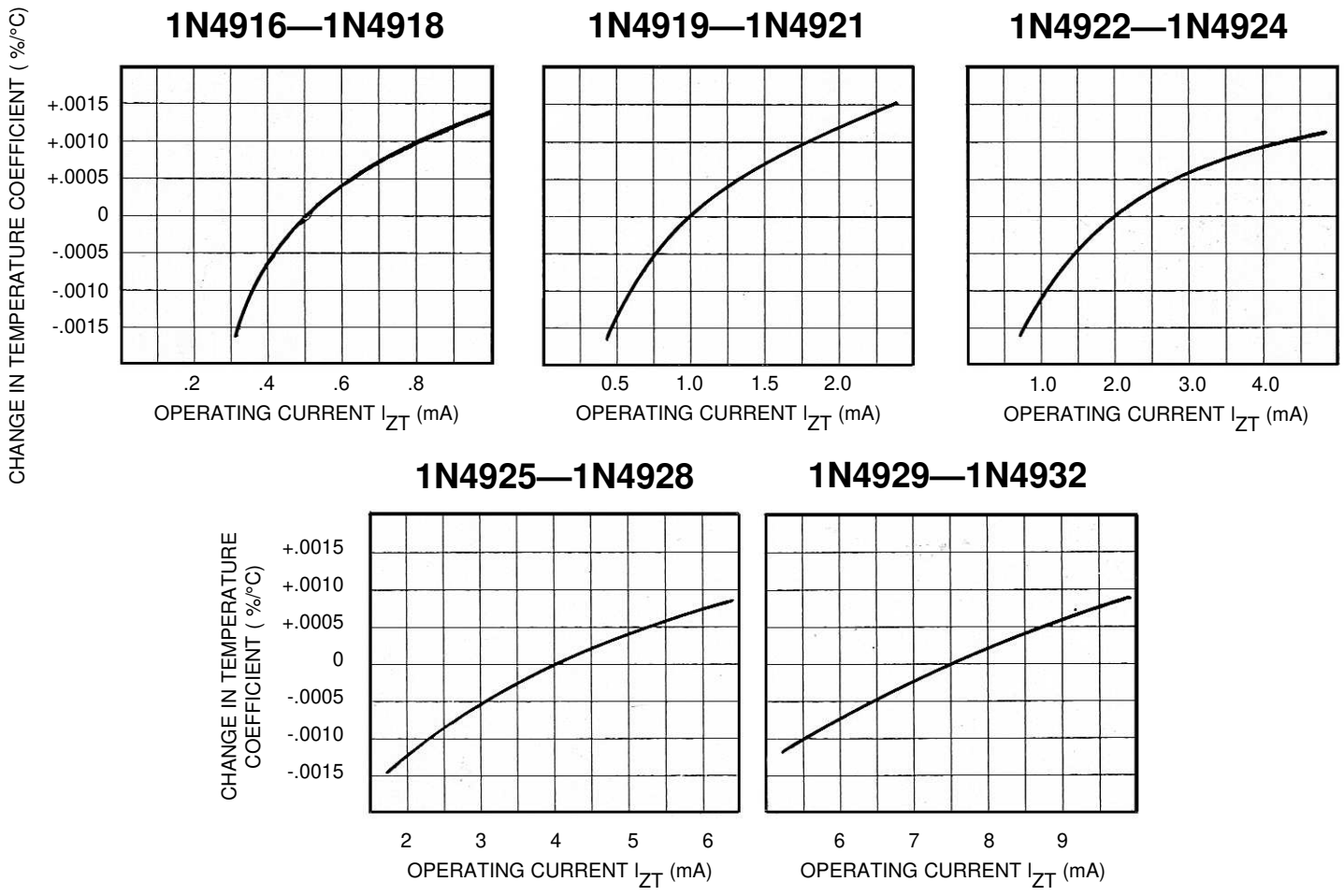

FIGURE 3

TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT