

CODI Semiconductor, Inc.

- 6.4 VOLT NOMINAL ZENER VOLTAGE $\pm 5\%$
- TEMPERATURE COMPENSATED ZENER REFERENCE DIODES
- LOW OPERATING CURRENT RANGE: 0.5 TO 4.0 mA

1N4565 thru 1N4584A

*MAXIMUM RATINGS

Operating Temperature: -65°C to $+200^{\circ}\text{C}$
 Storage Temperature: -65°C to $+200^{\circ}\text{C}$
 DC Power Dissipation: 500mW @ 50°C
 Power Derating: 3.33 mW/ $^{\circ}\text{C}$ above 50°C

*ELECTRICAL CHARACTERISTICS @ 25°C , unless otherwise specified

JEDEC TYPE NO. (Note 1)	ZENER TEST CURRENT	EFFECTIVE TEMPERATURE COEFFICIENT	VOLTAGE TEMPERATURE STABILITY (ΔV_{ZT} MAX) (Note 2)	TEMPERATURE RANGE	MAX. DYNAMIC ZENER IMPEDANCE (Note 3)
	mA	%/ $^{\circ}\text{C}$	mV	$^{\circ}\text{C}$	OHMS
1N4565 1N4565A	5	01	48 96	0 to + 75°C -55 to + 100°C	200 200
1N4566 1N4566A	5	005 005	24 48	0 to + 75°C -55 to + 100°C	200 200
1N4567 1N4567A	5	002 002	10 19	0 to + 75°C -55 to + 100°C	200 200
1N4568 1N4568A	5	001 001	5 9	0 to + 75°C -55 to + 100°C	200 200
1N4569 1N4569A	5	0005 0005	2.5 5	0 to + 75°C -55 to + 100°C	200 200
1N4570 1N4570A	1.0	01 01	48 96	0 to + 75°C -55 to + 100°C	100 100
1N4571 1N4571A	1.0	005 005	24 48	0 to + 75°C -55 to + 100°C	100 100
1N4572 1N4572A	1.0	002 002	10 19	0 to + 75°C 55 to + 100°C	100 100
1N4573 1N4573A	1.0	001 001	5 9	0 to + 75°C -55 to + 100°C	100 100
1N4574 1N4574A	1.0	0005 0005	2.5 5	0 to + 75°C -55 to + 100°C	100 100
1N4575 1N4575A	2.0	01 01	48 96	0 to + 75°C -55 to + 100°C	50 50
1N4576 1N4576A	2.0	005 005	24 48	0 to + 75°C -55 to + 100°C	50 50
1N4577 1N4577A	2.0	002 002	10 19	0 to + 75°C -55 to + 100°C	50 50
1N4578 1N4578A	2.0	001 001	5 9	0 to + 75°C -55 to + 100°C	50 50
1N4579 1N4579A	2.0	0005 0005	2.5 5	0 to + 75°C -55 to + 100°C	50 50
1N4580 1N4580A	4.0	01 01	48 96	0 to + 75°C -55 to + 100°C	25 25
1N4581 1N4581A	4.0	005 005	24 48	0 to + 75°C -55 to + 100°C	25 25
1N4582 1N4582A	4.0	002 002	10 19	0 to + 75°C -55 to + 100°C	25 25
1N4583 1N4583A	4.0	001 001	5 9	0 to + 75°C -55 to + 100°C	25 25
1N4584 1N4584A	4.0	0005 0005	2.5 5	0 to + 75°C -55 to + 100°C	25 25

*JEDEC Registered Data.

NOTE 1 Zener voltage range equals 6.4 volts $\pm 5\%$.

NOTE 2 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.

NOTE 3 Zener impedance is derived by superimposing on I_{zt} a 60Hz rms a.c. current equal to 10% of I_{zt} .

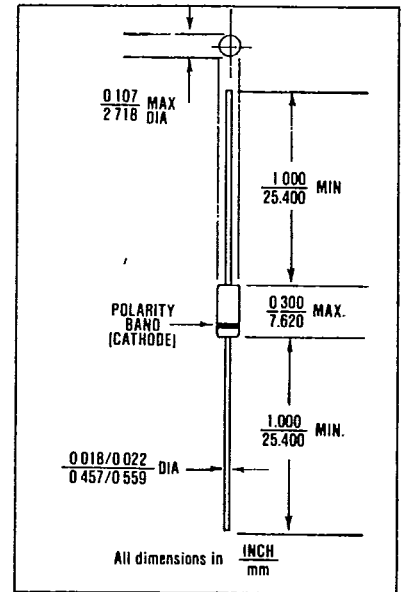


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case. DO-7 outline.

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin Plate

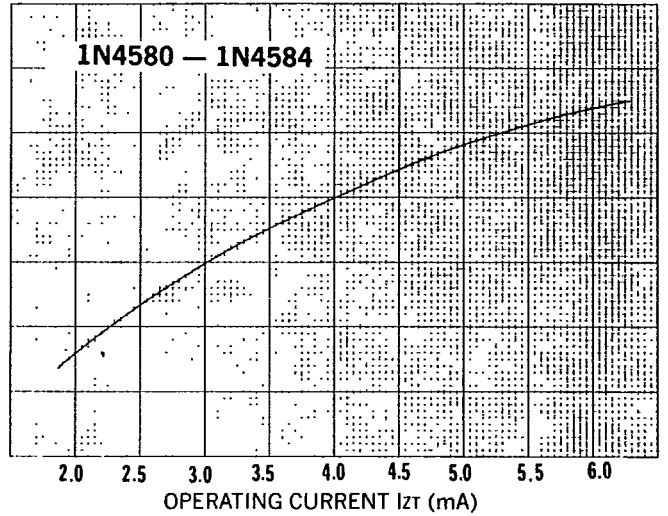
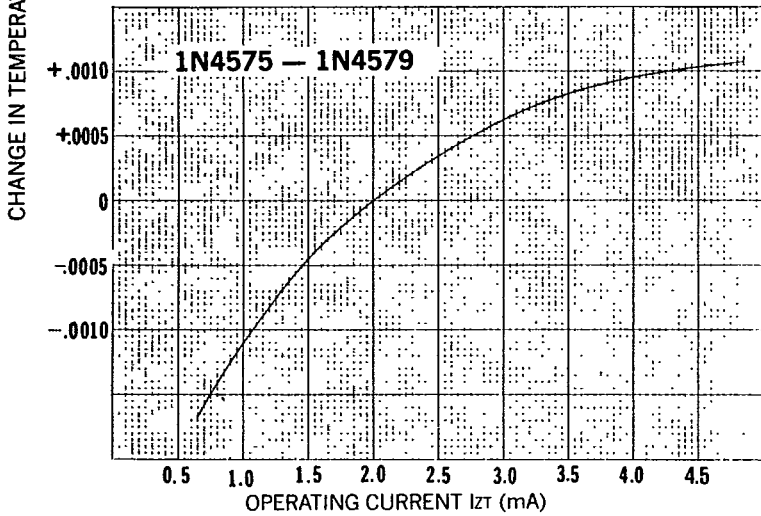
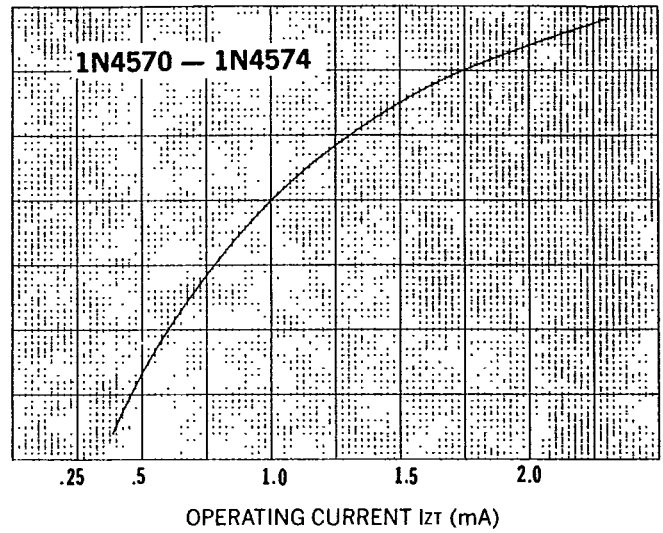
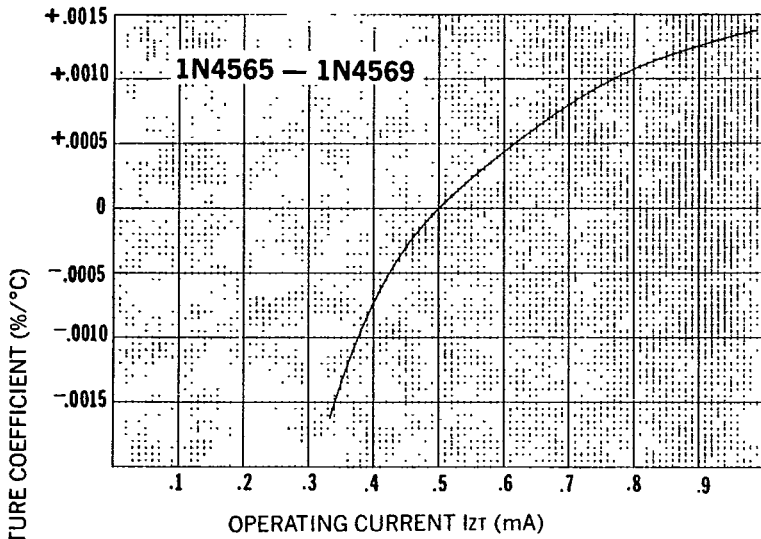
THERMAL RESISTANCE: 250 $^{\circ}\text{C}/\text{W}$ (Typical) junction to ambient.

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

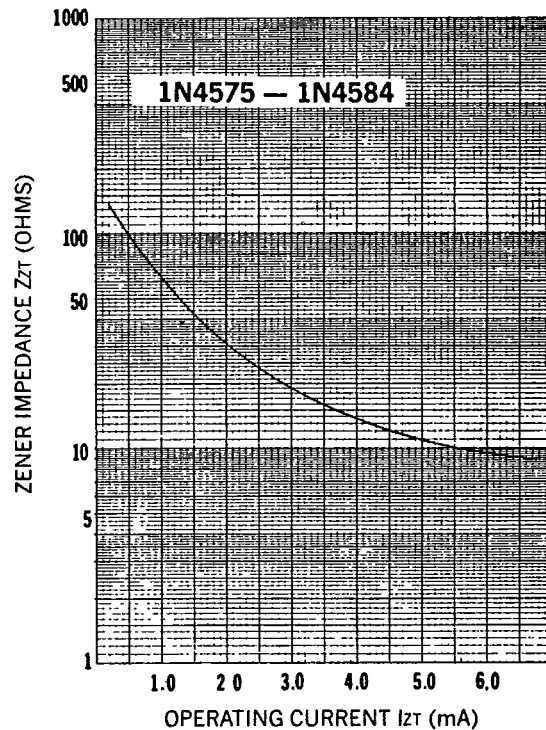
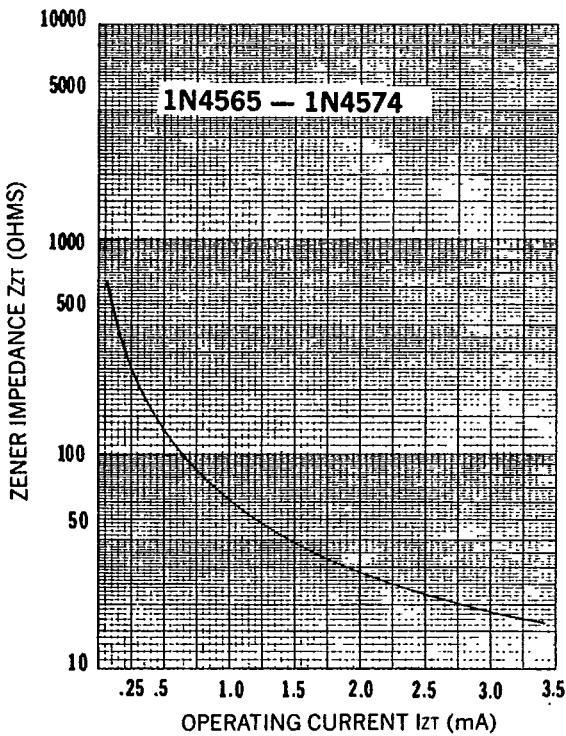
WEIGHT: 0.2 grams.

MOUNTING POSITION: Any.

1N4565 thru 1N4584A



TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT



TYPICAL CHANGE OF ZENER IMPEDANCE WITH CHANGE IN OPERATING CURRENT