

1N4565-1 thru 1N4584-1 & 1N4565A-1 thru 1N4584A-1

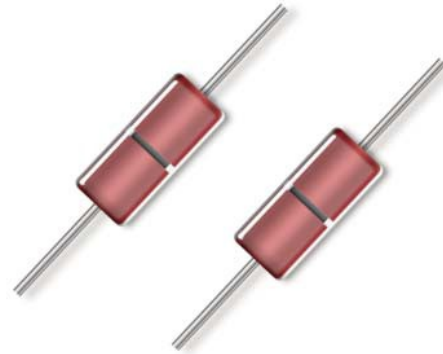


Temperature Compensated Zener Reference Diode Series

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Features

- Available in JAN, JANTX, JANTXV and JANS per MIL-PRF-19500/452
- 6.4 V Nominal Zener Voltage $\pm 5\%$
- 500 mW Power Handling
- Axial-leaded Glass DO-35 Style Package
- Also Available in a Hermetically sealed MELF DO-213AA package



Electrical Specifications:

$I_R = 2 \mu A @ +25^\circ C$ & $V_R = 3 V_{dc}$, $T_A = +25^\circ C$ (unless otherwise specified)

JEDEC Type #	Zener Test Current I_{ZT}	Effective Temperature Coefficient	Voltage Temperature Stability $\Delta V_{ZT} \text{ max.}^1$	Temperature Range	Maximum Dynamic Zener Impedance ²
	mA	%/°C	mV	°C	Ω
1N4565-1 1N4565A-1	0.5	0.01	48 100	0 to +75 -55 to +100	200
1N4566-1 1N4566A-1	0.5	0.005	24 50	0 to +75 -55 to +100	200
1N4567-1 1N4567A-1	0.5	0.002	10 20	0 to +75 -55 to +100	200
1N4568-1 1N4568A-1	0.5	0.001	5 10	0 to +75 -55 to +100	200
1N4569-1 1N4569A-1	0.5	0.0005	2.5 5.0	0 to +75 -55 to +100	200
1N4570-1 1N4570A-1	1.0	0.01	48 100	0 to +75 -55 to +100	100
1N4571-1 1N4571A-1	1.0	0.005	24 50	0 to +75 -55 to +100	100
1N4572-1 1N4572A-1	1.0	0.002	10 20	0 to +75 -55 to +100	100
1N4573-1 1N4573A-1	1.0	0.001	5 10	0 to +75 -55 to +100	100
1N4574-1 1N4574A-1	1.0	0.0005	2.5 5.0	0 to +75 -55 to +100	100
1N4575-1 1N4575A-1	2.0	0.01	48 100	0 to +75 -55 to +100	50
1N4576-1 1N4576A-1	2.0	0.005	24 50	0 to +75 -55 to +100	50

(Continued next page)

1N4565-1 thru 1N4584-1 & 1N4565A-1 thru 1N4584A-1



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Electrical Specifications:

$I_R = 2 \mu A @ +25^\circ C$ & $V_R = 3 V_{dc}$, $T_A = +25^\circ C$ (unless otherwise specified)

JEDEC Type #	Zener Test Current I_{ZT}	Effective Temperature Coefficient	Voltage Temperature Stability $\Delta V_{ZT} \text{ max.}^1$	Temperature Range	Maximum Dynamic Zener Impedance ²
	mA	%/°C	mV	°C	Ω
1N4577-1 1N4577A-1	2.0	0.002	10 20	0 to +75 -55 to +100	50
1N4578-1 1N4578A-1	2.0	0.001	5 10	0 to +75 -55 to +100	50
1N4579-1 1N4579A-1	2.0	0.0005	2.5 5.0	0 to +75 -55 to +100	50
1N4580-1 1N4580A-1	4.0	0.01	48 100	0 to +75 -55 to +100	25
1N4581-1 1N4581A-1	4.0	0.005	24 50	0 to +75 -55 to +100	25
1N4582-1 1N4582A-1	4.0	0.002	10 20	0 to +75 -55 to +100	25
1N4583-1 1N4583A-1	4.0	0.001	5 10	0 to +75 -55 to +100	25
1N4584-1 1N4584A-1	4.0	0.0005	2.5 5.0	0 to +75 -55 to +100	25

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

Absolute Maximum Ratings

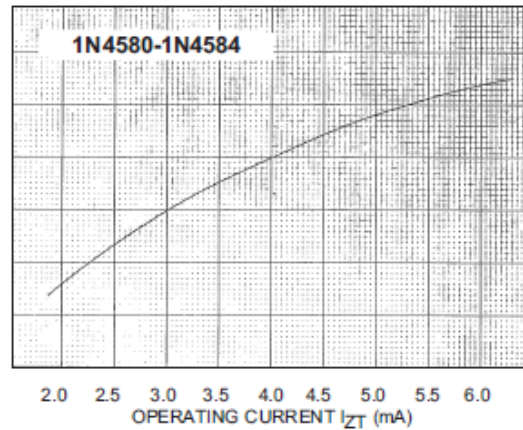
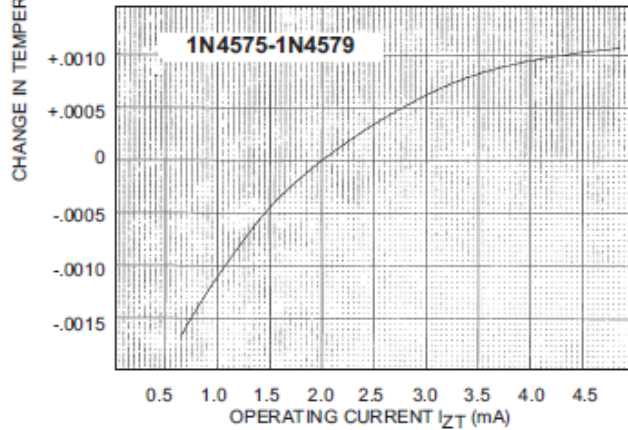
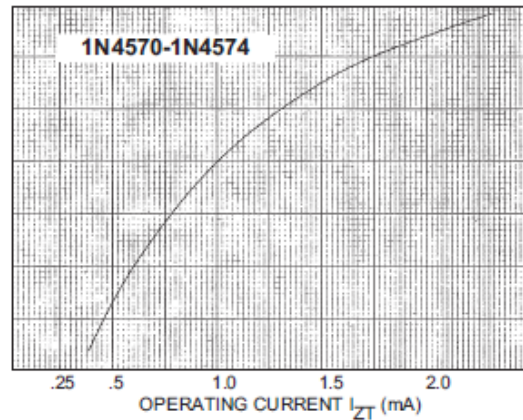
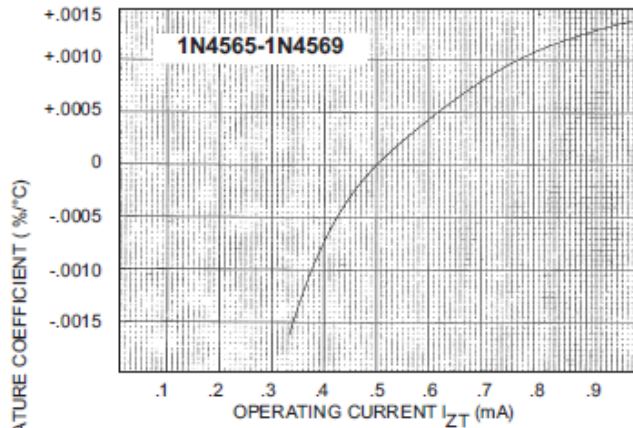
Parameter	Absolute Maximum
DC Power Dissipation	500 mW @ +50°C
Power Derating	4 mW/°C above +50°C
Operating & Storage Temperature	-65°C to +175°C

1N4565-1 thru 1N4584-1 & 1N4565A-1 thru 1N4584A-1

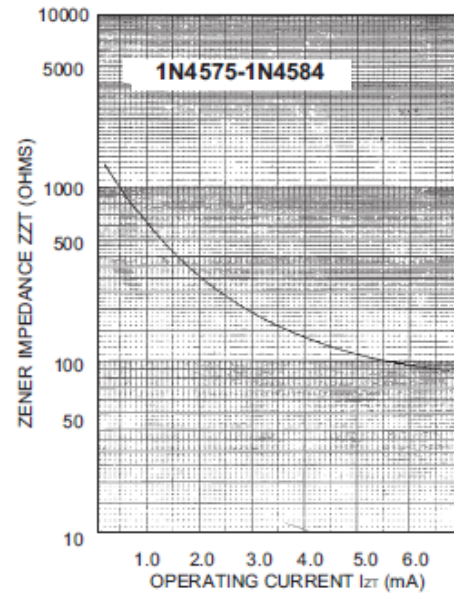
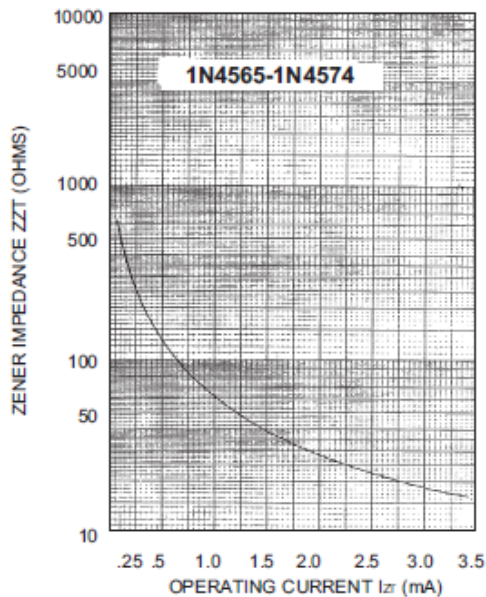


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TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT



ZENER IMPEDANCE VS. OPERATING CURRENT

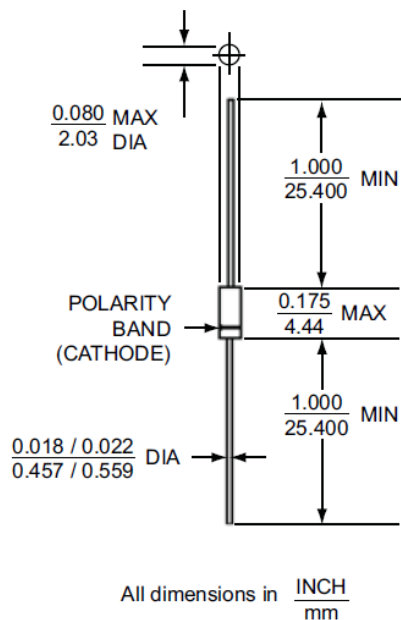
1N4565-1 thru 1N4584-1 & 1N4565A-1 thru 1N4584A-1



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Outline



Leaded Design Data

Case: DO-35, Hermetically sealed

Lead Material: Copper Clad Steel

Lead Finish: Tin / Lead

Polarity: Cathode end is banded.

Mounting Position: Any.

1N4565-1 thru 1N4584-1 & 1N4565A-1 thru 1N4584A-1



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