

Temperature Compensated Zener Reference Diode Series



1N4565UR thru 1N4584AUR, 1N4565AUR-1 thru 1N4584AUR-1

Features

- Available in JAN, JANTX, JANTXV and JANS per MIL-PRF-19500/452
- 6.4 Volt Nominal Zener Voltage $\pm 5\%$
- Metallurgically Bonded

Maximum Ratings

Operating & Storage Temperature: -65°C to $+175^{\circ}\text{C}$

DC Power Dissipation: 500mW @ $+50^{\circ}\text{C}$

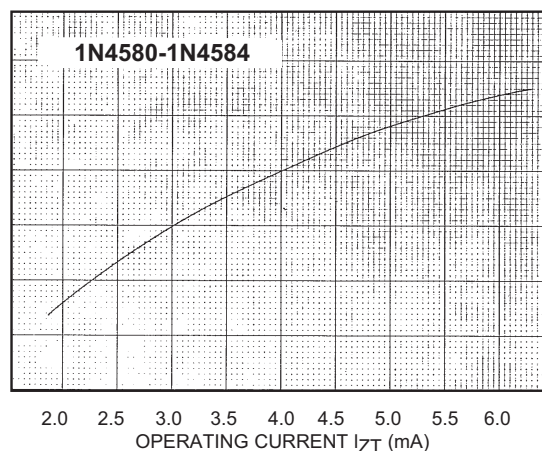
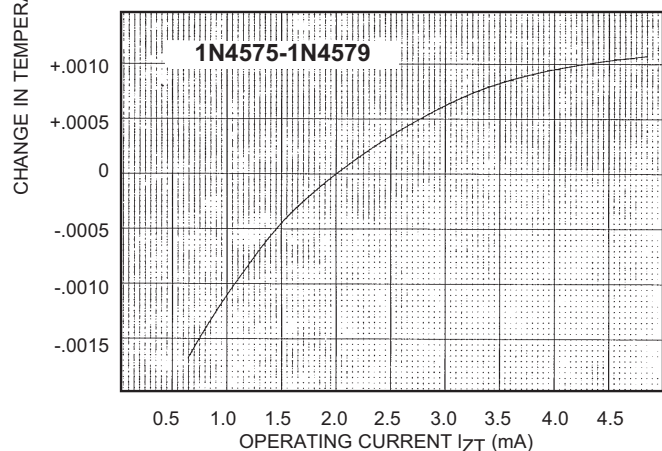
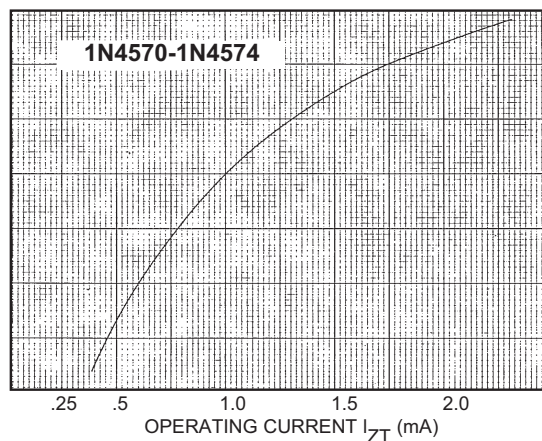
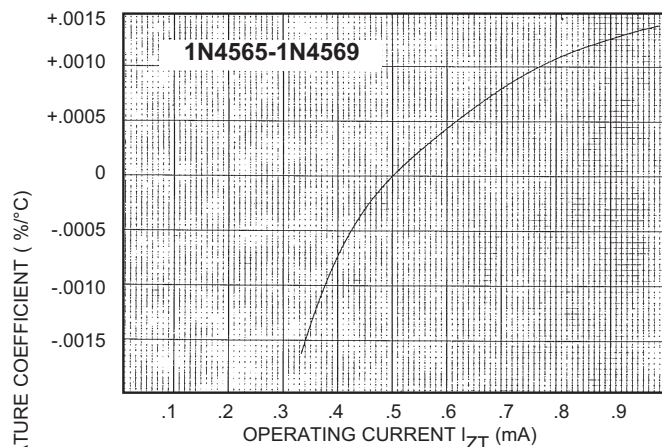
Power Derating: 4 mW / $^{\circ}\text{C}$ above $+50^{\circ}\text{C}$

REVERSE LEAKAGE CURRENT

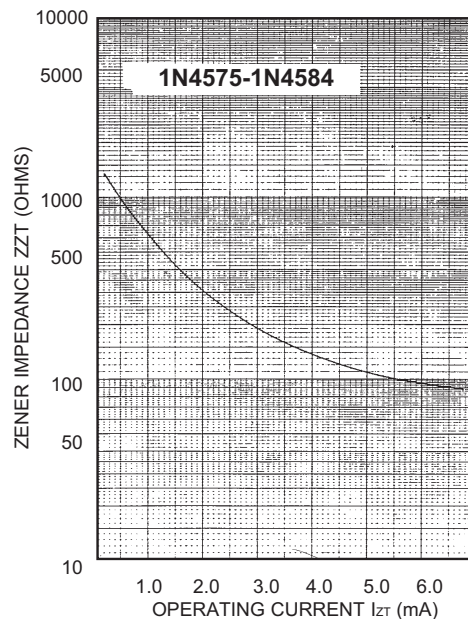
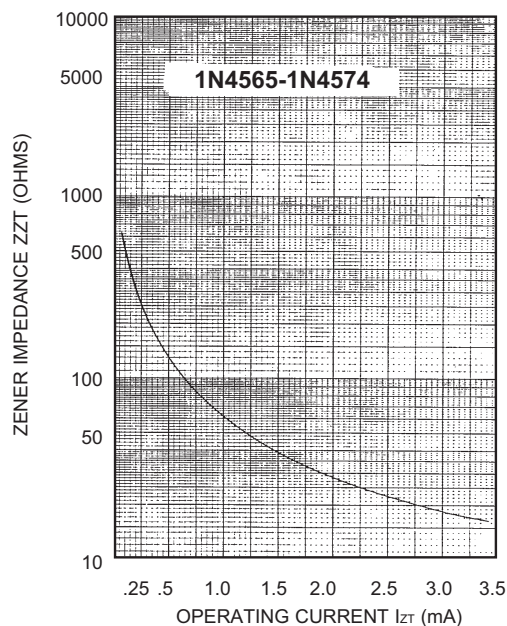
$I_R = 2\ \mu\text{A}$ @ 25°C & $V_R = 3\ \text{Vdc}$

Electrical Specifications @ $+25^{\circ}\text{C}$ (Unless Otherwise Specified)

JEDEC Type Number	Zener Test Current	Effective Temperature Coefficient	Voltage Temperature Stability ($3V_{ZT}$ maximum) (Note 1)	Temperature Range	Maximum Dynamic Zener Impedance (Note 2)
	mA	$\%/^{\circ}\text{C}$	mV	$^{\circ}\text{C}$	Ohms
1N4565UR, -1	0.5	0.01	48	0 to $+75^{\circ}\text{C}$	200
1N4565AUR, -1	0.5	0.01	100	-55 to $+100^{\circ}\text{C}$	200
1N4566UR, -1	0.5	0.005	24	0 to $+75^{\circ}\text{C}$	200
1N4566AUR, -1	0.5	0.005	50	-55 to $+100^{\circ}\text{C}$	200
1N4567UR, -1	0.5	0.002	10	0 to $+75^{\circ}\text{C}$	200
1N4567AUR, -1	0.5	0.002	20	-55 to $+100^{\circ}\text{C}$	200
1N4568UR, -1	0.5	0.001	5	0 to $+75^{\circ}\text{C}$	200
1N4568AUR, -1	0.5	0.001	10	-55 to $+100^{\circ}\text{C}$	200
1N4569UR, -1	0.5	0.0005	2.5	0 to $+75^{\circ}\text{C}$	200
1N4569AUR, -1	0.5	0.0005	5	-55 to $+100^{\circ}\text{C}$	200
1N4570UR, -1	1.0	0.01	48	0 to $+75^{\circ}\text{C}$	100
1N4570AUR, -1	1.0	0.01	100	-55 to $+100^{\circ}\text{C}$	100
1N4571UR, -1	1.0	0.005	24	0 to $+75^{\circ}\text{C}$	100
1N4571AUR, -1	1.0	0.005	50	-55 to $+100^{\circ}\text{C}$	100
1N4572UR, -1	1.0	0.002	10	0 to $+75^{\circ}\text{C}$	100
1N4572AUR, -1	1.0	0.002	20	-55 to $+100^{\circ}\text{C}$	100
1N4573UR, -1	1.0	0.001	5	0 to $+75^{\circ}\text{C}$	100
1N4573AUR, -1	1.0	0.001	10	-55 to $+100^{\circ}\text{C}$	100
1N4574UR, -1	1.0	0.0005	2.5	0 to $+75^{\circ}\text{C}$	100
1N4574AUR, -1	1.0				



TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT

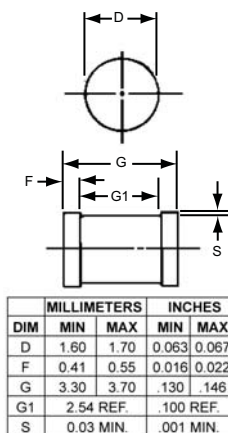


ZENER IMPEDANCE VS. OPERATING CURRENT

1N4565UR thru 1N4584AUR, 1N4565UR- thru 1N4584AUR-1



Outline Drawing



LEADED DESIGN DATA

CASE: DO – 213AA, Hermetically sealed glass case.
(MELF, SOD-80, LL34)

LEAD FINISH: Tin / Lead

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6 PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.

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