

1N4565(A)UR-1N4584(A)UR

6.4V TEMPERATURE COMPENSATED
ZENER DIODE
SURFACE MOUNT

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Characteristics	Value
Operating and storage temperatures	-65 to +175°C
DC power dissipation	500mW @ 50°C
Power derating	4mW/°C above 50°C
Solder temperature	260°C for 10 s maximum

$I_R = 2\mu A$ @ 25°C and $V_R = 3V$

ELECTRICAL CHARACTERISTICS

Part number (Note 1)	Zener test current (Note 3) I_{ZT}	Maximum voltage temperature coefficient			Maximum reverse current I_R @ 3 V	Maximum dynamic impedance (Note 2) Z_{ZT} @ I_{ZT}
	mA	$\alpha_{VZ} \pm \%/^{\circ}C$	$\pm mV/^{\circ}C$	Temp. range	μA	Ohms
1N4565UR	.5	0.01	.64	0 to 75°C	2.0	200
1N4565AUR	.5	0.01	.64	-55 to 100°C	2.0	200
1N4566UR	.5	0.005	.32	0 to 75°C	2.0	200
1N4566AUR	.5	0.005	.32	-55 to 100°C	2.0	200
1N4567UR	.5	0.002	.13	0 to 75°C	2.0	200
1N4567AUR	.5	0.002	.13	-55 to 100°C	2.0	200
1N4568UR	.5	0.001	.06	0 to 75°C	2.0	200
1N4568AUR	.5	0.001	.06	-55 to 100°C	2.0	200
1N4569UR	.5	0.0005	.03	0 to 75°C	2.0	200
1N4569AUR	.5	0.0005	.03	-55 to 100°C	2.0	200
1N4570UR	.5	0.01	.64	0 to 75°C	2.0	100
1N4570AUR	.5	0.01	.64	-55 to 100°C	2.0	100
1N4571UR	1.0	0.005	.32	0 to 75°C	2.0	100
1N4571AUR	1.0	0.005	.32	-55 to 100°C	2.0	100
1N4572UR	1.0	0.002	.13	0 to 75°C	2.0	100
1N4572AUR	1.0	0.002	.13	-55 to 100°C	2.0	100
1N4573UR	1.0	0.001	.06	0 to 75°C	2.0	100
1N4573AUR	1.0	0.001	.06	-55 to 100°C	2.0	100
1N4574UR	1.0	0.0005	.03	0 to 75°C	2.0	100
1N4574AUR	1.0	0.0005	.03	-55 to 100°C	2.0	100
1N4575UR	2.0	0.01	.64	0 to 75°C	2.0	50
1N4575AUR	2.0	0.01	.64	-55 to 100°C	2.0	50
1N4576UR	2.0	0.005	.32	0 to 75°C	2.0	50
1N4576AUR	2.0	0.005	.32	-55 to 100°C	2.0	50
1N4577UR	2.0	0.002	.13	0 to 75°C	2.0	50

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Part number (Note 1)	Zener test current (Note 3) I_{ZT}	Maximum voltage temperature coefficient			Maximum reverse current I_R @ 3 V	Maximum dynamic impedance (Note 2) Z_{dT} @ I_{ZT}
	mA	$\alpha_{VZ} \pm \%/^{\circ}\text{C}$	$\pm \text{mV}/^{\circ}\text{C}$	Temp. range	μA	Ohms
1N4577AUR	2.0	0.002	.13	-55 to 100°C	2.0	50
1N4578UR	2.0	0.001	.06	0 to 75°C	2.0	50
1N4578AUR	2.0	0.001	.06	-55 to 100°C	2.0	50
1N4579UR	2.0	0.0005	.03	0 to 75°C	2.0	50
1N4579AUR	2.0	0.0005	.03	-55 to 100°C	2.0	50
1N4580UR	4.0	0.01	.64	0 to 75°C	2.0	25
1N4580AUR	4.0	0.01	.64	-55 to 100°C	2.0	25
1N4581UR	4.0	0.005	.32	0 to 75°C	2.0	25
1N4581AUR	4.0	.005	.32	-55 to 100°C	2.0	25
1N4582UR	4.0	.002	.13	0 to 75°C	2.0	25
1N4582AUR	4.0	.002	.13	-55 to 100°C	2.0	25
1N4583UR	4.0	.001	.06	0 to 75°C	2.0	25
1N4583AUR	4.0	.001	.06	-55 to 100°C	2.0	25
1N4584UR	4.0	.0005	.03	0 to 75°C	2.0	25
1N4584AUR	4.0	.0005	.03	-55 to 100°C	2.0	25

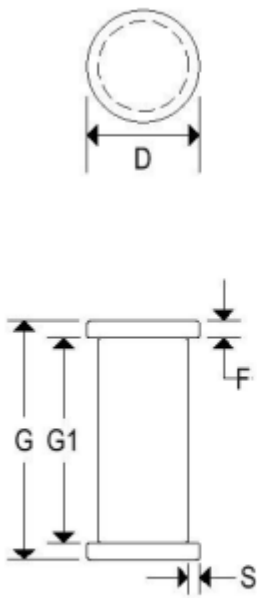
1. Standard V_Z tolerance is 6.4V $\pm 5\%$. Tighter tolerances are available – contact Digitron.
2. Zener impedance is measured by superimposing 0.75 mA ac rms on 7.5 mA dc @ 25°C.
3. Voltage measurements to be performed 15 seconds after application of dc test current I_{ZT} .

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MECHANICAL CHARACTERISTICS

Case:	SOD-80
Polarity:	Body painted, alpha-numeric
Lead finish:	Cathode band

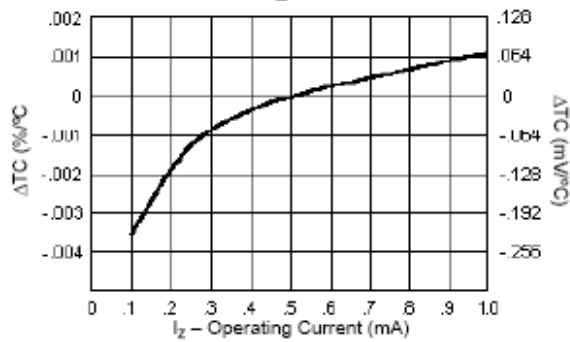


	SOD-80			
	Inches		Millimeters	
	Min	Max	Min	Max
D	0.055	0.067	1.397	1.702
F	-	0.022	-	0.559
G	0.130	0.146	3.302	3.708
G1	0.100 REF		2.540 REF	
S	0.001	-	0.025	-

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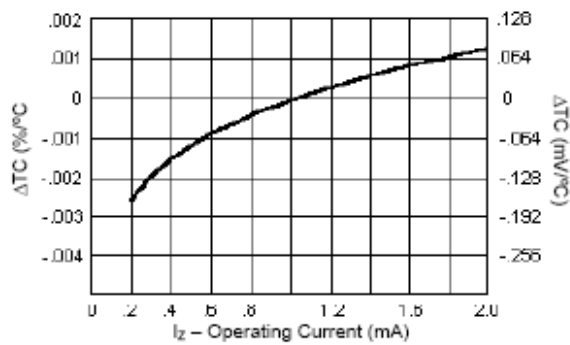
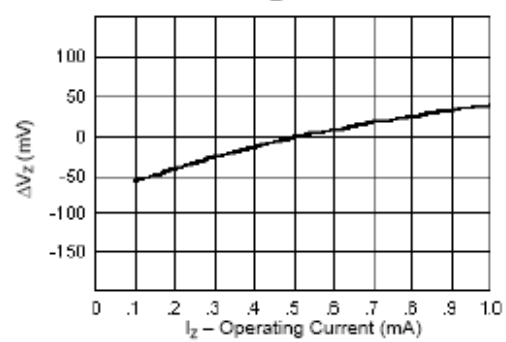
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Typical change of
Temperature Coefficient
with change in
Operating Current



1N4565 - 1N4569A

Typical Change
in Zener Voltage
with change in
Operating Current



1N4570 - 1N4574A

