



Microsemi Corp.
The diode experts



**1N4565, A, -1
thru
1N4584, A, -1
DO-7**

SCOTTSDALE, AZ
For more information call:
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FEATURES

- 6.4 V \pm 5% ZENER VOLTAGE (NOTE 1)
- TEMPERATURE COEFFICIENT RANGE: 0.01%/°C TO 0.0005%/°C
- ZENER TEST CURRENT RANGE: 500 μ A TO 4mA
- 1N4565A THRU 1N4574A HAVE JAN, JANTX, JANTXV, JANS, AND -1 QUALIFICATIONS TO MIL-S-19500/452
- RADIATION HARDENED DEVICES AVAILABLE (SEE NOTE 4)
- ALSO AVAILABLE IN DO-35 PACKAGE WITH JAN, JANTX, JANTXV-1 QUALIFICATIONS

MAXIMUM RATINGS

Power Dissipation: 475 mW, at 25°C
derate 3.16 mW/°C above 25°C
Operating and Storage Temperature: -65 to +175°C

@ 25°C, unless otherwise specified

*** ELECTRICAL CHARACTERISTICS**

JEDEC TYPE NO.	ZENER TEST CURRENT mA	MAXIMUM VOLTAGE TEMPERATURE COEFFICIENT		MAX. DYNAMIC ZENER IMPEDANCE OHMS (Note 2)
		$\alpha_{Vz} \pm \%/^{\circ}C$	$\pm mV/^{\circ}C$	
1N4565	.5	.01	.64	200
1N4565A	.5	.01	.64	200
1N4566	.5	.005	.32	200
1N4566A	.5	.005	.32	200
1N4567	.5	.002	.13	200
1N4567A	.5	.002	.13	200
1N4568	.5	.001	.06	200
1N4568A	.5	.001	.06	200
1N4569	.5	.0005	.03	200
1N4569A	.5	.0005	.03	200
1N4570	1.0	.01	.64	100
1N4570A	1.0	.01	.64	100
1N4571	1.0	.005	.32	100
1N4571A	1.0	.005	.32	100
1N4572	1.0	.002	.13	100
1N4572A	1.0	.002	.13	100
1N4573	1.0	.001	.06	100
1N4573A	1.0	.001	.06	100
1N4574	1.0	.0005	.03	100
1N4574A	1.0	.0005	.03	100
1N4575	2.0	.01	.64	50
1N4575A	2.0	.01	.64	50
1N4576	2.0	.005	.32	50
1N4576A	2.0	.005	.32	50
1N4577	2.0	.002	.13	50
1N4577A	2.0	.002	.13	50
1N4578	2.0	.001	.06	50
1N4578A	2.0	.001	.06	50
1N4579	2.0	.0005	.03	50
1N4579A	2.0	.0005	.03	50
1N4580	4.0	.01	.64	25
1N4580A	4.0	.01	.64	25
1N4581	4.0	.005	.32	25
1N4581A	4.0	.005	.32	25
1N4582	4.0	.002	.13	25
1N4582A	4.0	.002	.13	25
1N4583	4.0	.001	.06	25
1N4583A	4.0	.001	.06	25
1N4584	4.0	.0005	.03	25
1N4584A	4.0	.0005	.03	25

* JEDEC Registered Data

NOTE 1 For specific device selections above requiring tighter tolerances than \pm 5%, inquire with factory as to nominal zener voltage available.

NOTE 2 Measured by superimposing rms AC current equal to 10% zener test current @ 25°C. The temperature coefficient of zener impedance is approx. +0.3%/°C.

NOTE 3 Voltage measurements to be performed 15 seconds after application of DC current.

NOTE 4 Designate Radiation Hardened devices with "RH" prefix instead of "1N," i.e., RH4584A.

**6.4 VOLT
TEMPERATURE
COMPENSATED
ZENER REFERENCE
DIODES**

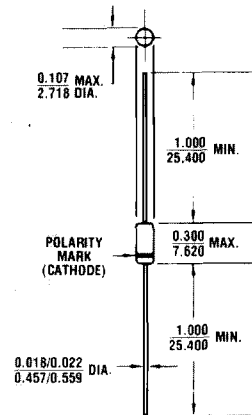


FIGURE 1
All dimensions in INCH
m.m.

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case, DO-7.

FINISH: All external surfaces are corrosion resistant and leads solderable.

THERMAL RESISTANCE: 300°C/W (Typical) junction to lead at 0.375-inches from body.

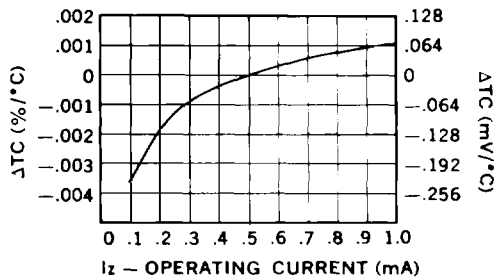
POLARITY: Diode to be operated with the banded end positive with respect to the opposite end.

WEIGHT: 0.2 grams.

MOUNTING POSITION: Any.

1N4565, A, -1 thru 1N4584, A, -1 DO-7

TYPICAL CHANGE OF
TEMPERATURE COEFFICIENT
WITH CHANGE IN
OPERATING CURRENT



TYPICAL CHANGE
IN ZENER VOLTAGE
WITH CHANGE IN
OPERATING CURRENT

