

*New Jersey Semi-Conductor Products, Inc.*

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 SPRINGFIELD, NEW JERSEY 07081  
 U.S.A.

**TEMPERATURE COMPENSATED ZENER REFERENCE DIODES**  
**6.4 VOLT NOMINAL ZENER VOLTAGE**

**1N4565**  
 thru  
**1N4584A**

**FEATURES**

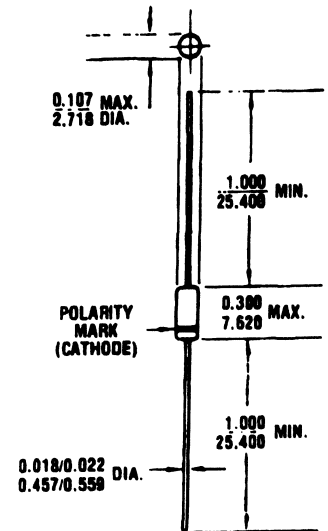
6.4 V  $\pm 5\%$  Zener Voltage (Note 1)  
 Temperature Coefficient Range: .01 to .0005%/ $^{\circ}\text{C}$   
 Zener Test Current Range: 500 $\mu\text{A}$  to 4 mA

**MAXIMUM RATINGS**

Operating Temperature: -55  $^{\circ}\text{C}$  to +175  $^{\circ}\text{C}$   
 Storage Temperature: -55  $^{\circ}\text{C}$  to +175  $^{\circ}\text{C}$   
 DC Power Dissipation: 400 mW at 50  $^{\circ}\text{C}$   
 Power Derating: 3.2 mW/ $^{\circ}\text{C}$  above 50  $^{\circ}\text{C}$

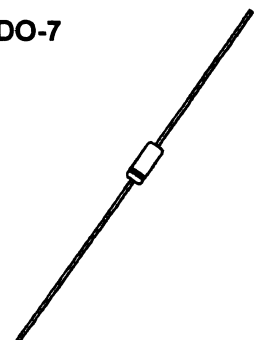
**\* ELECTRICAL CHARACTERISTICS @ 25  $^{\circ}\text{C}$ , unless otherwise specified**

JEDEC TYPE NUMBERS	ZENER TEST CURRENT - $I_{ZT}$ (Note 1) mA	MAXIMUM DYNAMIC ZENER IMPEDANCE $Z_{ZT}$ (Note 2) Ohms	MAXIMUM VOLTAGE TEMPERATURE COEFFICIENT		
			$\pm\%/^{\circ}\text{C}$	$\pm\text{mV}/^{\circ}\text{C}$	TEMP RANGE $^{\circ}\text{C}$
1N4565 1N4565A	.5 .5	200 200	.01 .01	.64 .64	0 to +75 -55 to +100
1N4566 1N4566A	.5 .5	200 200	.005 .005	.32 .32	0 to +75 -55 to +100
1N4567 1N4567A	.5 .5	200 200	.002 .002	.13 .13	0 to +75 -55 to +100
1N4568 1N4568A	.5 .5	200 200	.001 .001	.06 .06	0 to +75 -55 to +100
1N4569 1N4569A	.5 .5	200 200	.0005 .0005	.03 .03	0 to +75 -55 to +100
1N4570 1N4570A	1.0 1.0	100 100	.01 .01	.64 .64	0 to +75 -55 to +100
1N4571 1N4571A	1.0 1.0	100 100	.005 .005	.32 .32	0 to +75 -55 to +100
1N4572 1N4572A	1.0 1.0	100 100	.002 .002	.13 .13	0 to +75 -55 to +100
1N4573 1N4573A	1.0 1.0	100 100	.001 .001	.06 .06	0 to +75 -55 to +100
1N4574 1N4574A	1.0 1.0	100 100	.0005 .0005	.03 .03	0 to +75 -55 to +100
1N4575 1N4575A	2.0 2.0	50 50	.01 .01	.64 .64	0 to +75 -55 to +100
1N4576 1N4576A	2.0 2.0	50 50	.005 .005	.32 .32	0 to +75 -55 to +100
1N4577 1N4577A	2.0 2.0	50 50	.002 .002	.13 .13	0 to +75 -55 to +100
1N4578 1N4578A	2.0 2.0	50 50	.001 .001	.06 .06	0 to +75 -55 to +100
1N4579 1N4579A	2.0 2.0	50 50	.0005 .0005	.03 .03	0 to +75 -55 to +100
1N4580A 1N4580A	4.0 4.0	25 25	.01 .01	.64 .64	0 to +75 -55 to +100
1N4581 1N4581A	4.0 4.0	25 25	.005 .005	.32 .32	0 to +75 -55 to +100
1N4582 1N4582A	4.0 4.0	25 25	.002 .002	.13 .13	0 to +75 -55 to +100
1N4583 1N4583A	4.0 4.0	25 25	.001 .001	.06 .06	0 to +75 -55 to +100
1N4584 1N4584A	4.0 4.0	25 25	.0005 .0005	.03 .03	0 to +75 -55 to +100



All dimensions in INCH  
mm

DO-7



\* Reference voltage diodes of nominal 6.4 V  $\pm 5\%$   
 C =  $\pm 2\%$  tolerance  
 D =  $\pm 1\%$  tolerance