



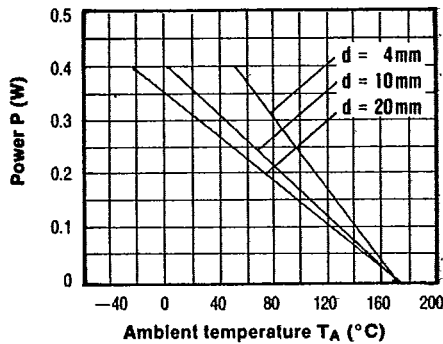
# 400mW Zener Diodes 1N702 thru 1N707

## GENERAL DESCRIPTION

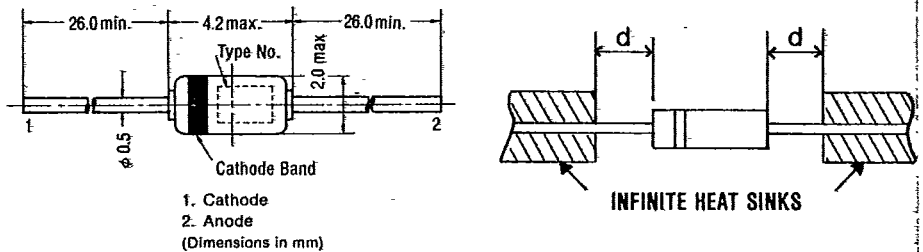
The Hitachi 400mW ZENER DIODE series 1N702 THRU 1N707 are especially designed for stabilized power supply, clipper, limiter, and surge absorber applications.

These devices are available in DO-35 glass packages, and assure high reliability.

### MAXIMUM POWER DISSIPATION



### OUTLINE DIMENSION



### ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^{\circ}C$ )

ITEM	SYMBOL	RATINGS	UNIT
Power dissipation	P	400	mW
Storage temperature	$T_{stg}$	-65 to 200	$^{\circ}C$
Lead temperature	$T_L$	230	$^{\circ}C$
Continuous reverse current	$I_{zM}$		

### ELECTRICAL CHARACTERISTICS ( $T_a = 25^{\circ}C$ )

TYPE	$V_Z$ ZENER VOLTAGE			$Z_Z$ ZENER IMPEDANCE	$I_R$ REVERSE CURRENT		$V_F$ FORWARD VOLTAGE	$I_{zM}$ CONTINUOUS REVERSE CURRENT	$V_{R(1)}$ TEST VOLTAGE
	$I_{ZT} = 5\text{mA}$			$I_{ZT} = 10\text{mA}$ $I_{zT} = 1\text{mA}$	$T_a = 25^{\circ}C$	$T_a = 100^{\circ}C$	$I_F = 200\text{mA}$		
Limits	Min.	Nom.	Max.	Max.	Max.	Max.	Max.	mA	V
Unit	V			ohms	$\mu A$	$\mu A$	V		
1N702	2.00	2.60	3.20	60	75	100	1	87	1
1N703	3.00	3.45	3.90	55	50	100	1	66	1
1N704	3.70	4.10	4.50	45	5	100	1	58	1
1N705	4.30	4.85	5.40	35	5	100	1	48	1.5
1N706	5.20	5.80	6.40	20	5	100	1	41	1.5
1N707	6.20	7.10	8.00	10	5	50	1	33	1.5

**NOTE:** Tolerance designation

Units with guaranteed limits are indicated by non-suffix for  $\pm 10\%$  tolerance, suffix "A" for  $\pm 5\%$ .