HITACHI

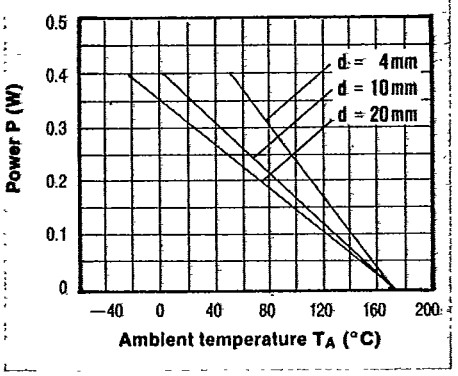
400mW Zener Diodes
1N957 thru 1N974

GENERAL DESCRIPTION

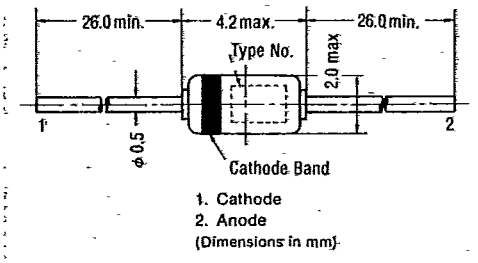
The Hitachi 400mW ZENER DIODE series 1N957 THRU 1N974 are especially designed for stabilized power supply, clipper, limiter, and surge absorber applications.

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

MAXIMUM POWER DISSIPATION

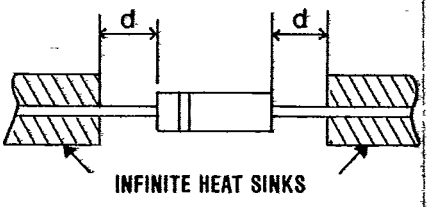


OUTLINE DIMENSION



1. Cathode
2. Anode

(Dimensions in mm)



ABSOLUTE MAXIMUM RATINGS (T_a = 25°C)

ITEM	SYMBOL	RATINGS	UNIT
Power dissipation (T_A = 50°C)	P	400	mW
Junction temperature	T_j	175	°C
Operating temperature	T_{opr}	−55 to +175	°C
Storage temperature	T_{stg}	−55 to +175	°C
Continuous reverse current	I_{ZM}	See electrical characteristics	

ELECTRICAL CHARACTERISTICS

	NOMINAL ZENER VOLTAGE V_Z	TEST CURRENT I_{ZT}	MAXIMUM REVERSE LEAKAGE		MAXIMUM ZENER IMPEDANCE			TEMP. COEFF. (TYP) ΔV_Z	I_{ZM}	I_{ZSM} T_p = 10mS
			I_R	V_R	Z_{ZT} @ I_{ZT}	I_{ZK}	Z_{ZK} @ I_{ZK}			
	V	mA	μA	V	ohms	mA	ohms	%/°C	mA	mA
1N957	6.8	18.5	150	5.2	4.5	1.0	700	+0.045	58	900
1N958	7.5	16.5	75	5.7	5.5	0.5	700	+0.050	53	810
1N959	8.2	15	50	6.2	6.5	0.5	700	+0.050	47	760
1N960	9.1	14	25	6.9	7.5	0.5	700	+0.055	43	670
1N961	10	12.5	10	7.6	8.5	0.25	700	+0.060	49	600
1N962	11	11.5	5	8.4	9.5	0.25	700	+0.060	36	550
1N963	12	10.5	5	9.1	11.5	0.25	700	+0.065	32	500
1N964	13	9.5	5	9.9	13	0.25	700	+0.070	29	450
1N965	15	8.5	5	11.4	16	0.25	700	+0.070	27	380
1N966	16	7.8	5	12.2	17	0.25	700	+0.070	24	350
1N967	18	7.0	5	13.7	21	0.25	700	+0.075	21	300
1N968	20	6.2	5	15.2	25	0.25	750	+0.080	20	270
1N969	22	5.6	5	16.7	29	0.25	750	+0.080	18	250
1N970	24	5.2	5	18.2	33	0.25	750	+0.080	16	225
1N971	27	4.6	5	20.6	41	0.25	750	+0.080	14	200
1N972	30	4.2	5	22.8	49	0.25	1000	+0.080	13	190
1N973	33	3.8	5	25.1	58	0.25	1000	+0.085	12	175
1N974	36	3.4	5	27.4	70	0.25	1000	+0.085	11	160

NOTE:
Tolerance designation Unit with guaranteed limits are indicated by non-suffix for ±20% tolerance, suffix "A" for ±10% and suffix "B" for ±5%.