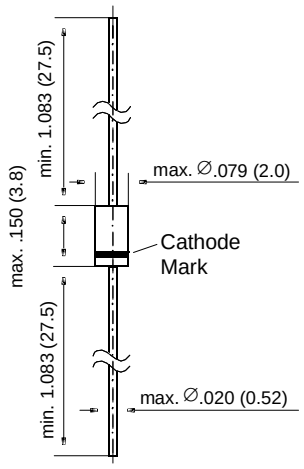
1N957 THRU 1N978

ZENER DIODES

DO-35



Dimensions are in inches and (millimeters)

FEATURES

- Silicon Planar Power Zener Diodes
- Standard Zener voltage tolerance is ±5% for "B" suffix. Other tolerances are available upon request.



MECHANICAL DATA

Case: DO-35 Glass Case
Weight: approx. 0.13 g

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	*VALUE*	*UNIT*
Zener Current (see Table "Characteristics")			
Power Dissipation at T_L = 75°C	P_{tot}	500(1)	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_S	– 65 to +175	°C

NOTES:
(1) T_L is measured 3/8" from body.

	SYMBOL	*MIN.*	*TYP.*	*MAX.*	*UNIT*
Thermal Resistance Junction to Ambient Air	R_{thJA}	–	–	300(1)	°C/W
Forward Voltage at I_F = 200 mA	V_F	–	–	1.5	Volts

NOTES:
(1) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

GENERAL SEMICONDUCTOR®

1N957 THRU 1N978

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Type Number	Nominal Zener Voltage V_Z[3] (Volts)	Test Current I_{ZT} (mA)	Maximum Zener Impedance[1]			Maximum Regulator Current I_{ZM}[2] (mA)	Maximum Reverse Current	
			Z_{ZT} @ I_{ZT} (Ω)	Z_{ZK} @ I_{ZK} (Ω)	I_{ZK} (mA)		I_R Maximum (μA)	Test Voltage Vdc (Volts)
1N957B	6.8	18.5	4.5	700	1	47	150	5.2
1N958B	7.5	16.5	5.5	700	0.5	42	75	5.7
1N959B	8.2	15	6.5	700	0.5	38	50	6.2
1N960B	9.1	14	7.5	700	0.5	35	25	6.9
1N961B	10	12.5	8.5	700	0.25	32	10	7.6
1N962B	11	11.5	9.5	700	0.25	28	5	8.4
1N963B	12	10.5	11.5	700	0.25	26	5	9.1
1N964B	13	9.5	13	700	0.25	24	5	9.9
1N965B	15	8.5	16	700	0.25	21	5	11.4
1N966B	16	7.8	17	700	0.25	19	5	12.2
1N967B	18	7	21	750	0.25	17	5	13.7
1N968B	20	6.2	25	750	0.25	15	5	15.2
1N969B	22	5.6	29	750	0.25	14	5	16.7
1N970B	24	5.2	33	750	0.25	13	5	18.2
1N971B	27	4.6	41	750	0.25	11	5	20.6
1N972B	30	4.2	49	1000	0.25	10	5	22.8
1N973B	33	3.8	58	1000	0.25	9.2	5	25.1
1N974B	36	3.4	70	1000	0.25	8.5	5	27.4
1N975B	39	3.2	80	1000	0.25	7.8	5	29.7
1N976B	43	3	93	1500	0.25	7	5	32.7
1N977B	47	2.7	105	1500	0.25	6.4	5	35.8
1N978B	51	2.5	125	1500	0.25	5.9	5	38.8

NOTES:

(1) The Zener Impedance is derived from the 1 KHz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT}) is superimposed on I_{ZT}. Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

(2) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

(3) Measured with device junction in thermal equilibrium.