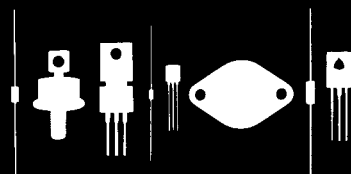


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145 Adams Avenue  
Hauppauge, New York 11788



1N957B THRU 1N992B  
500 mW ZENER DIODE  
6.8 VOLTS to 200 VOLTS  
5% TOLERANCE  
JEDEC DO-35\* CASE

**DESCRIPTION**

The Central Semiconductor 1N957B Series Silicon Zener Diode is a high quality voltage regulator for use in industrial, commercial, entertainment and computer applications.

**ABSOLUTE MAXIMUM RATINGS**

Power Dissipation (@  $T_L = 75^\circ\text{C}$ )  
Operating and Storage Temperature  
Tolerance "B Suffix"  
Tolerance "C Suffix"  
Tolerance "D Suffix"

**SYMBOL**

$P_D$  500  
 $T_J, T_{STG}$  -65 to +200  
 $\pm 5$   
 $\pm 2$   
 $\pm 1$

**UNIT**

mW  
 $^\circ\text{C}$   
%  
%  
%

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$ ),  $V_F = 1.5\text{V MAX @ } I_F = 200\text{ mA}$  FOR ALL TYPES.

TYPE	Zener Voltage	Test Current	Maximum Zener Impedance			Maximum Reverse Current		Maximum Zener Current
	$V_Z @ I_{ZT}$		$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Volts	mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$	Volts	mA
1N957B	6.8	18.5	4.5	700	1.0	150	5.2	47
1N958B	7.5	16.5	5.5	700	0.5	75	5.7	42
1N959B	8.2	15	6.5	700	0.5	50	6.2	38
1N960B	9.1	14	7.5	700	0.5	25	6.9	35
1N961B	10	12.5	8.5	700	0.25	10	7.6	32
1N962B	11	11.5	9.5	700	0.25	5.0	8.4	28
1N963B	12	10.5	11.5	700	0.25	5.0	9.1	26
1N964B	13	9.5	13	700	0.25	5.0	9.9	24
1N965B	15	8.5	16	700	0.25	5.0	11.4	21
1N966B	16	7.8	17	700	0.25	5.0	12.2	19
1N967B	18	7.0	21	750	0.25	5.0	13.7	17
1N968B	20	6.2	25	750	0.25	5.0	15.2	15
1N969B	22	5.6	29	750	0.25	5.0	16.7	14
1N970B	24	5.2	33	750	0.25	5.0	18.2	13
1N971B	27	4.6	41	750	0.25	5.0	20.6	11
1N972B	30	4.2	49	1000	0.25	5.0	22.8	10
1N973B	33	3.8	58	1000	0.25	5.0	25.1	9.2
1N974B	36	3.4	70	1000	0.25	5.0	27.4	8.5
1N975B	39	3.2	80	1000	0.25	5.0	29.7	7.8
1N976B	43	3.0	93	1500	0.25	5.0	32.7	7.0
1N977B	47	2.7	105	1500	0.25	5.0	35.8	6.4
1N978B	51	2.5	125	2000	0.25	5.0	38.8	5.9
1N979B	56	2.2	150	2000	0.25	5.0	42.6	5.4
1N980B	62	2.0	185	2000	0.25	5.0	47.1	4.9
1N981B	68	1.8	230	2000	0.25	5.0	51.7	4.5
1N982B	75	1.7	270	2000	0.25	5.0	56	1.0
1N983B	82	1.5	330	3000	0.25	5.0	62.2	3.7
1N984B	91	1.4	400	3000	0.25	5.0	69.2	3.3
1N985B	100	1.3	500	3000	0.25	5.0	76	3.0
1N986B	110	1.1	750	4000	0.25	5.0	83.6	2.7
1N987B	120	1.0	900	4500	0.25	5.0	91.2	2.5
1N988B	130	0.95	1100	5000	0.25	5.0	98.8	2.3
1N989B	150	0.85	1500	6000	0.25	5.0	114	2.0
1N990B	160	0.80	1700	6500	0.25	5.0	121.6	1.9
1N991B	180	0.68	2200	7100	0.25	5.0	136.8	1.7
1N992B	200	0.65	2500	8000	0.25	5.0	152	1.5

\*1N985B thru 1N992B may be supplied in an Epoxy DO-7 Case.

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