

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N3675B thru 1N3710B

1.0W ZENER DIODE  
6.8 VOLTS to 200 VOLTS  
5% TOLERANCE

JEDEC DO-41 Case

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N3675B series silicon zener diode is a high quality voltage regulator for use in automotive, industrial, commercial, entertainment, and computer applications.

ABSOLUTE MAXIMUM RATINGSPower Dissipation (@  $T_A=25^\circ\text{C}$ )

Operating and Storage Junction Temperature

SYMBOL $P_D$  $T_J, T_{STG}$ 

1.0W

-65 to +150°C

TOLERANCE

±5%

ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ )

TYPE NO.	ZENER VOLTAGE	TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT
	$V_Z @ I_{ZT}$ (V)	$I_{ZT}$ (mA)	$Z_{ZT} @ I_{ZT}$ ( $\Omega$ )	$I_R$ ( $\mu\text{A}$ )	@ $V_R$ (V)	$I_{ZM}$ (mA)
1N3675B	6.8	18.5	4.5	150	5.2	100
1N3676B	7.5	16.5	5.5	75	5.7	90
1N3677B	8.2	15.0	6.5	50	6.2	80
1N3678B	9.1	14.0	7.5	25	6.9	70
1N3679B	10	12.5	8.5	10	7.6	65
1N3680B	11	11.5	9.5	5.0	8.4	55
1N3681B	12	10.5	11.5	5.0	9.1	53
1N3682B	13	9.5	13	5.0	9.9	50
1N3683B	15	8.5	16	5.0	11.4	42
1N3684B	16	7.8	17	5.0	12.2	40
1N3685B	18	7.0	21	5.0	13.7	35
1N3686B	20	6.2	25	5.0	15.2	32
1N3687B	22	5.6	29	5.0	16.7	29
1N3688B	24	5.2	33	5.0	18.2	26
1N3689B	27	4.6	41	5.0	20.6	23
1N3690B	30	4.2	49	5.0	22.8	21
1N3691B	33	3.8	58	5.0	25.1	20
1N3692B	36	3.4	70	5.0	27.4	18
1N3693B	39	3.2	80	5.0	29.7	15
1N3694B	43	3.0	93	5.0	32.7	14
1N3695B	47	2.7	105	5.0	35.8	13
1N3696B	51	2.5	125	5.0	38.8	12.2
1N3697B	56	2.2	150	5.0	42.6	11
1N3698B	62	2.0	185	5.0	47.1	10
1N3699B	68	1.8	230	5.0	51.7	9
1N3700B	75	1.7	270	5.0	56.0	8.5

ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ ) continued

TYPE NO.	ZENER VOLTAGE $V_Z @ I_{ZT}$ (V)	TEST CURRENT $I_{ZT}$ (mA)	MAXIMUM ZENER IMPEDANCE $Z_{ZT} @ I_{ZT}$ ( $\Omega$ )	MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT $I_{ZM}$ (mA)
				$I_R$ ( $\mu\text{A}$ )	$V_R$ (V)	
1N3701B	82	1.5	330	5.0	62.2	7.5
1N3702B	91	1.4	400	5.0	69.2	7
1N3703B	100	1.3	500	5.0	76.0	6
1N3704B	110	1.1	750	5.0	83.6	5.4
1N3705B	120	1.0	900	5.0	91.2	5.2
1N3706B	130	0.95	1100	5.0	98.8	4.5
1N3707B	150	0.85	1500	5.0	114.0	3.7
1N3708B	160	0.80	1700	5.0	121.6	3.6
1N3709B	180	0.68	2200	5.0	136.8	3.4
1N3710B	200	0.65	2500	5.0	152.0	3

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