

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA

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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

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$)SYMBOL P_D T_J, T_{STG}

1.0W

-65 to +150°C

TOLERANCE

±5%

TYPE NO.	ZENER VOLTAGE	TEST CURRENT	MAXIMUM ZENER IMPEDANCE	MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT
	$V_Z @ I_{ZT}$ (V)	I_{ZT} (mA)	$Z_{ZT} @ I_{ZT}$ (Ω)	I_R (μA)	@ 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°C) continued

TYPE NO.	ZENER VOLTAGE V _Z @ I _{ZT} (V)	TEST CURRENT I _{ZT} (mA)	MAXIMUM ZENER IMPEDANCE Z _{ZT} @ I _{ZT} (Ω)	MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT I _{ZM} (mA)
				I _R (μA)	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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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01186
Notification Date:	9/15/21
Last Buy Date:	3/15/22
Last Shipment Date	9/15/22

Summary: 1N3710B and 1N4384 diodes are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

*** All Plating types (PBFREE, TIN/LEAD) for each item listed are included in this notice.**

<u>Central Part Number</u>	<u>Suggested Replacement</u>
1N3710B BK	N/A
1N4384 BK	N/A
1N4384 TR	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.