Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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CZ5334B THRU CZ5388B

SILICON ZENER DIODES
3.3 THRU 200 VOLT
5W, 5% TOLERANCE

DO-201 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZ5334B series silicon Zener diodes are high quality voltage regulators designed for use in industrial, commercial, entertainment, and computer applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_L=75°C)	**SYMBOL**		**UNITS**
Power Dissipation (Note 1)	P_D	5.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200	°C
V_Z Tolerance: Part number with “B” suffix		±5	%
V_Z Tolerance: Part number with “C” suffix		±2	%
V_Z Tolerance: Part number with “D” suffix		±1	%

ELECTRICAL CHARACTERISTICS: (T_A=25°C) V_F=1.2V MAX @ I_F=1.0A (for all types)

Type	Zener Voltage V_Z @ I_{ZT}			Test Current	Maximum Zener Impedance			Maximum Reverse Current		Maximum Surge Current (Note 2)	Maximum Voltage Regulation (Note 3)	Maximum Regulator Current
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		i_r	ΔV_Z	I_{ZM}
	V	V	V	mA	Ω	Ω	mA	μA	V	A	V	mA
CZ5334B	3.420	3.6	3.780	350	2.5	500	1.0	150	1.0	18.7	0.80	1320
CZ5335B	3.705	3.9	4.095	320	2.0	500	1.0	50	1.0	17.6	0.54	1220
CZ5336B	4.085	4.3	4.515	290	2.0	500	1.0	10	1.0	16.4	0.49	1100
CZ5337B	4.465	4.7	4.935	260	2.0	450	1.0	10	1.0	15.3	0.44	1010
CZ5338B	4.845	5.1	5.355	240	1.5	400	1.0	10	1.0	14.4	0.39	930
CZ5339B	5.320	5.6	5.880	220	1.0	400	1.0	10	2.0	13.4	0.25	865
CZ5340B	5.700	6.0	6.300	200	1.0	300	1.0	10	3.0	12.7	0.25	790
CZ5341B	5.890	6.2	6.510	200	1.0	200	1.0	10	3.0	12.4	0.25	765
CZ5342B	6.460	6.8	7.140	175	1.0	200	1.0	100	5.2	11.5	0.25	700
CZ5343B	7.125	7.5	7.875	175	1.5	200	1.0	100	5.7	10.7	0.25	630
CZ5344B	7.790	8.2	8.610	150	1.5	200	1.0	100	6.2	10.0	0.20	580
CZ5345B	8.265	8.7	9.135	150	2.0	200	1.0	100	6.6	7.5	0.20	545
CZ5346B	8.645	9.1	9.555	150	2.0	150	1.0	7.5	6.9	9.2	0.22	520
CZ5347B	9.500	10	10.50	125	2.0	125	1.0	5.0	7.6	8.6	0.22	475
CZ5348B	10.45	11	11.55	125	2.5	125	1.0	5.0	8.4	8.0	0.25	430
CZ5349B	11.40	12	12.60	100	2.5	125	1.0	2.0	9.1	7.5	0.25	395
CZ5350B	12.35	13	13.65	100	2.5	100	1.0	1.0	9.9	7.0	0.25	365
CZ5351B	13.30	14	14.70	100	2.5	75	1.0	1.0	10.6	6.7	0.25	340
CZ5352B	14.25	15	15.75	75	2.5	75	1.0	1.0	11.5	6.3	0.25	315
CZ5353B	15.20	16	16.80	75	2.5	75	1.0	1.0	12.2	6.0	0.30	295
CZ5354B	16.15	17	17.85	70	2.5	75	1.0	0.5	12.9	5.8	0.35	280
CZ5355B	17.10	18	18.90	65	2.5	75	1.0	0.5	13.7	5.5	0.40	264
CZ5356B	18.05	19	19.95	65	3.0	75	1.0	0.5	14.4	5.3	0.40	250
CZ5357B	19.00	20	21.00	65	3.0	75	1.0	0.5	15.2	5.1	0.40	237
CZ5358B	20.90	22	23.10	50	3.5	75	1.0	0.5	16.7	4.7	0.45	216
CZ5359B	22.80	24	25.20	50	3.5	100	1.0	0.5	18.2	4.4	0.55	198

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CZ5334B THRU CZ5388B

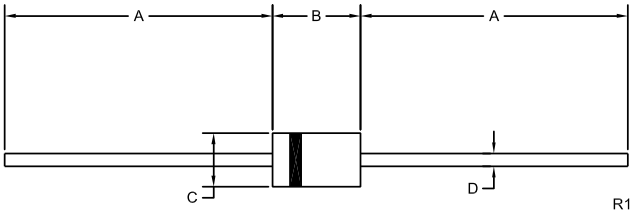
SILICON ZENER DIODES
3.3 THRU 200 VOLT
5W, 5% TOLERANCE

ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C) V_F=1.2V MAX @ I_F=1.0A (for all types)

Type	Zener Voltage V_Z @ I_{ZT}			Test Current	Maximum Zener Impedance			Maximum Reverse Current		Maximum Surge Current (Note 2)	Maximum Voltage Regulation (Note 3)	Maximum Regulator Current
	MIN	NOM	MAX	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}		I_R @ V_R		i_r	ΔV_Z	I_{ZM}
	V	V	V	mA	Ω	Ω	mA	μA	V	A	V	mA
CZ5360B	23.75	25	26.25	50	4.0	110	1.0	0.5	19.0	4.3	0.55	190
CZ5361B	25.65	27	28.35	50	5.0	120	1.0	0.5	20.6	4.1	0.60	176
CZ5362B	26.60	28	29.40	50	6.0	130	1.0	0.5	21.2	3.9	0.60	170
CZ5363B	28.50	30	31.50	40	8.0	140	1.0	0.5	22.8	3.7	0.60	158
CZ5364B	31.35	33	34.65	40	10	150	1.0	0.5	25.1	3.5	0.65	144
CZ5365B	34.20	36	37.80	30	11	160	1.0	0.5	27.4	3.3	0.65	132
CZ5366B	37.05	39	40.95	30	14	170	1.0	0.5	29.7	3.1	0.65	122
CZ5367B	40.85	43	45.15	30	20	190	1.0	0.5	32.7	2.8	0.70	110
CZ5368B	44.65	47	49.35	25	25	210	1.0	0.5	35.8	2.7	0.80	100
CZ5369B	48.45	51	53.55	25	27	230	1.0	0.5	38.8	2.5	0.90	93.0
CZ5370B	53.20	56	58.80	20	35	280	1.0	0.5	42.6	2.3	1.00	86.0
CZ5371B	57.00	60	63.00	20	40	350	1.0	0.5	45.5	2.2	1.20	79.0
CZ5372B	58.90	62	65.10	20	42	400	1.0	0.5	47.1	2.1	1.35	76.0
CZ5373B	64.60	68	71.40	20	44	500	1.0	0.5	51.7	2.0	1.50	70.0
CZ5374B	71.25	75	78.75	20	45	620	1.0	0.5	56.0	1.9	1.60	63.0
CZ5375B	77.90	82	86.10	15	65	720	1.0	0.5	62.2	1.8	1.80	58.0
CZ5376B	82.65	87	91.35	15	75	760	1.0	0.5	66.0	1.7	2.00	54.5
CZ5377B	86.45	91	95.55	15	75	760	1.0	0.5	69.2	1.6	2.20	52.5
CZ5378B	95.00	100	105.0	12	90	800	1.0	0.5	76.0	1.5	2.50	47.5
CZ5379B	104.5	110	115.5	12	125	1000	1.0	0.5	83.6	1.4	2.50	43.0
CZ5380B	114.0	120	126.0	10	170	1150	1.0	0.5	91.2	1.3	2.50	39.5
CZ5381B	123.5	130	136.5	10	190	1250	1.0	0.5	98.8	1.2	2.50	36.6
CZ5382B	133.0	140	147.0	8.0	230	1500	1.0	0.5	106	1.2	2.50	34.0
CZ5383B	142.5	150	157.5	8.0	330	1500	1.0	0.5	114	1.1	3.00	31.6
CZ5384B	152.0	160	168.0	8.0	350	1650	1.0	0.5	122	1.1	3.00	29.4
CZ5385B	161.5	170	178.5	8.0	380	1750	1.0	0.5	129	1.0	3.00	28.0
CZ5386B	171.0	180	189.0	5.0	430	1750	1.0	0.5	137	1.0	4.00	26.4
CZ5387B	180.5	190	199.5	5.0	450	1850	1.0	0.5	144	0.9	5.00	25.0
CZ5388B	190.0	200	210.0	5.0	480	1850	1.0	0.5	152	0.9	5.00	23.6

Notes: (1) Mounted on 8.0mm^2 copper pads to each terminal. Measure at zero lead length. Derate above 75°C.
(2) Surge current (i_r) - Maximum allowable peak, non-recurrent square wave current (PW=8.3ms).
(3) Voltage regulation (ΔV_Z) - V_Z measurements are made at 10% and then at 50% of the I_Z MAX value listed in the electrical characteristics table. The test current time duration for each V_Z measurement is 380μs (T_A=25°C).

DO-201 CASE - MECHANICAL OUTLINE



R1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	1.000	-	25.40	-
B	0.285	0.375	7.24	9.53
C	0.188	0.210	4.78	5.33
D	0.037	0.042	0.94	1.07

DO-201(REV: R1)

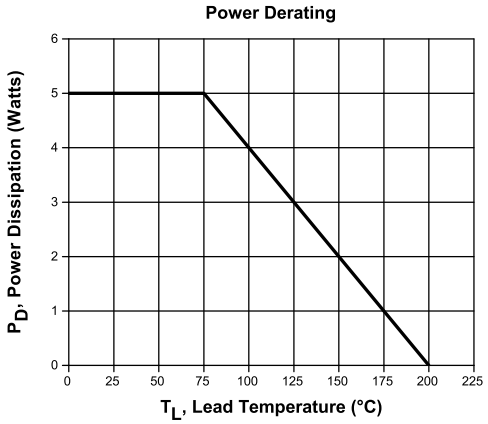
MARKING: FULL PART NUMBER

R9 (15-December 2016)

CZ5334B THRU CZ5388B

SILICON ZENER DIODES
3.3 THRU 200 VOLT
5W, 5% TOLERANCE

TYPICAL ELECTRICAL CHARACTERISTICS



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

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Worldwide Field Representatives:
www.centralsemi.com/wwreps

Worldwide Distributors:
www.centralsemi.com/wwdistributors

Central Semiconductor Corp.

http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01100
Notification Date:	7/20/18
Last Buy Date:	1/20/19
Last Shipment Date	7/20/19

Summary:All extreme low and high voltage Zener diodes in the DO-201 package 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.

Central Part Number	Replacement
CZ5334B BK	N/A
CZ5334B TR	N/A
CZ5335B BK	N/A
CZ5335B TR	N/A
CZ5336B BK	N/A
CZ5336B TR	N/A
CZ5337B BK	N/A
CZ5337B TR	N/A
CZ5337C TR	N/A
CZ5337D TR	N/A
CZ5374B BK	N/A
CZ5374B TR	N/A
CZ5375B BK	N/A
CZ5375B TR	N/A
CZ5376B BK	N/A
CZ5376B TR	N/A
CZ5377B BK	N/A
CZ5377B TR	N/A
CZ5378B BK	N/A
CZ5378B TR	N/A
CZ5379B BK	N/A
CZ5379B TR	N/A
CZ5380B BK	N/A
CZ5380B TR	N/A
CZ5381B BK	N/A
CZ5381B TR	N/A
CZ5382B BK	N/A
CZ5382B TR	N/A
CZ5383B BK	N/A
CZ5383B TR	N/A
CZ5384B BK	N/A
CZ5384B TR	N/A
CZ5384C BK	N/A
CZ5385B BK	N/A
CZ5385B TR	N/A
CZ5386B BK	N/A
CZ5386B TR	N/A

*** CONTINUED ***

http://www.centralsemi.com

Product End of Life Notification

PDN ID:	PDN01100
Notification Date:	7/20/18
Last Buy Date:	1/20/19
Last Shipment Date	7/20/19

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
CZ5386C BK	N/A
CZ5387B BK	N/A
CZ5387B TR	N/A
CZ5388B BK	N/A
CZ5388B TR	N/A
CZ5388D BK	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@centralsemi.com.