

CZ5334B THRU CZ5388B

SILICON ZENER DIODE
3.3 THRU 200 VOLTS
5W, 5% TOLERANCE


www.centra-semi.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**DO-201 CASE****MAXIMUM RATINGS:** ($T_L=75^\circ\text{C}$)

Power Dissipation (Note 1)

Operating and Storage Junction Temperature

 V_Z Tolerance: Part number with "B" suffix V_Z Tolerance: Part number with "C" suffix V_Z Tolerance: Part number with "D" suffix**SYMBOL** P_D T_J, T_{stg}

5.0

-65 to +200

 ± 5 ± 2 ± 1 **UNITS**

W

 $^\circ\text{C}$

%

%

%

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.2\text{V MAX @ } I_F=1.0\text{A}$ (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

R8 (1-June 2012)

CZ5334B THRU CZ5388B

SILICON ZENER DIODE
3.3 THRU 200 VOLTS
5W, 5% TOLERANCE



ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$) $V_F=1.2\text{V MAX @ } I_F=1.0\text{A}$ (for all types)

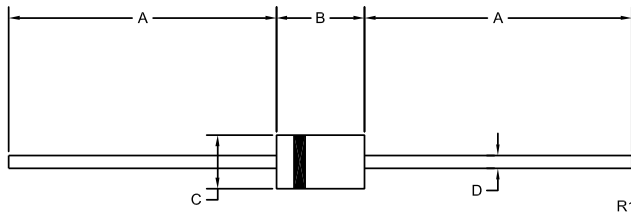
Type	Zener Voltage V _Z @ I _{ZT}			Test Current I _{ZT}	Maximum Zener Impedance			Maximum Reverse Current		Maximum Surge Current (Note 2)	Maximum Voltage Regulation (Note 3)	Maximum Regulator Current I _{ZM}
	MIN	NOM	MAX		I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _R @ V _R				
	V	V	V		mA	Ω	Ω	mA	μA			
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 8.0mm² 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_{ZT} MAX value listed in the electrical characteristics table. The test current time duration for each V_Z measurement is 380 μs ($T_A=25^\circ\text{C}$).

DO-201 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	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

R8 (1-June 2012)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

[CZ5347B TR \(1,400 PCS PER REEL\)](#) [CZ5356B](#) [CZ5348B](#) [CZ5345B](#) [CZ5350B](#) [CZ5334B](#) [CZ5335B](#) [CZ5336B](#)
[CZ5337B](#) [CZ5338B](#) [CZ5339B](#) [CZ5341B](#) [CZ5342B](#) [CZ5343B](#) [CZ5344B](#) [CZ5346B](#) [CZ5347B](#) [CZ5351B](#) [CZ5352B](#)
[CZ5353B](#) [CZ5354B TR](#) [CZ5355B](#) [CZ5357B TR](#) [CZ5358B](#) [CZ5359B](#) [CZ5360B](#) [CZ5361B](#) [CZ5344B TR](#) [CZ5342B](#)
[TR](#) [CZ5343B TR](#) [CZ5353B TR](#) [CZ5352B TR](#) [CZ5355B TR](#) [CZ5359B TR](#) [CZ5351B TR](#) [CZ5358B TR](#) [CZ5361B TR](#)
[CZ5360B TR](#) [CZ5347B TR](#) [CZ5349B TR](#)