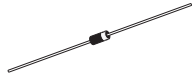


C1Z3.3B THRU C1Z91B
SILICON ZENER DIODE
3.3 VOLTS THRU 91 VOLTS
1.0 W, 5% TOLERANCE



DO-15 CASE

CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR C1Z3.3B Series Silicon Zener Diode is a high quality epoxy molded voltage regulator designed for use in industrial, commercial, entertainment and computer applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS:

Power Dissipation ($T_A=50^\circ\text{C}$)
 Operating and Storage Temperature

SYMBOL

P_D 1.0
 T_J, T_{stg} -65 to +150

UNITS

W
 $^\circ\text{C}$

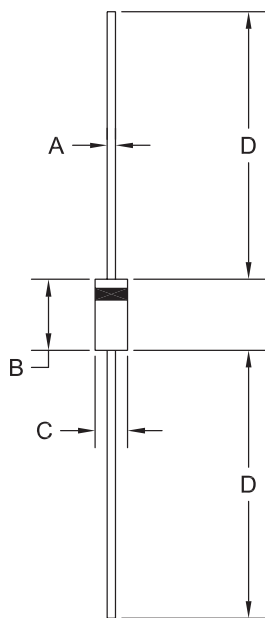
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=500\text{mA}$ (for all types)

Type	Zener Voltage			Test Current	Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$			I_{ZT}	$I_R @ V_R$	
	MIN V	NOM V	MAX V	mA	μA	V
C1Z3.3B	3.14	3.3	3.47	76	100	1.0
C1Z3.6B	3.42	3.6	3.78	69	100	1.0
C1Z3.9B	3.71	3.9	4.10	64	50	1.0
C1Z4.3B	4.09	4.3	4.52	58	10	1.0
C1Z4.7B	4.47	4.7	4.94	53	10	1.0
C1Z5.1B	4.85	5.1	5.36	49	10	1.0
C1Z5.6B	5.32	5.6	5.88	45	10	2.0
C1Z6.2B	5.89	6.2	6.51	41	10	3.0
C1Z6.8B	6.46	6.8	7.14	37	10	4.0
C1Z7.5B	7.13	7.5	7.88	34	10	5.0
C1Z8.2B	7.79	8.2	8.61	31	10	6.0
C1Z9.1B	8.65	9.1	9.56	28	10	7.0
C1Z10B	9.50	10	10.50	25	10	7.6
C1Z11B	10.45	11	11.55	23	5.0	8.4
C1Z12B	11.40	12	12.60	21	5.0	9.1
C1Z13B	12.35	13	13.65	19	5.0	9.9
C1Z14B	13.30	14	14.70	18	5.0	10.6
C1Z15B	14.25	15	15.75	17	5.0	11.4
C1Z16B	15.20	16	16.80	15.5	5.0	12.2
C1Z17B	16.15	17	17.85	14.8	5.0	12.9
C1Z18B	17.10	18	18.90	14	5.0	13.7
C1Z19B	18.05	19	19.95	13.3	5.0	14.4
C1Z20B	19.00	20	21.00	12.5	5.0	15.2
C1Z22B	20.90	22	23.10	11.5	5.0	16.7
C1Z24B	22.80	24	25.20	10.5	5.0	18.2
C1Z25B	23.75	25	26.25	10.2	5.0	19.0
C1Z27B	25.65	27	28.35	9.5	5.0	20.6

ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=500\text{mA}$ (for all types)

Type	Zener Voltage			Test Current	Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$			I_{ZT}	$I_R @ V_R$	
	MIN V	NOM V	MAX V	mA	μA	V
C1Z30B	28.50	30	31.50	8.5	5.0	22.8
C1Z33B	31.35	33	34.65	7.5	5.0	25.1
C1Z36B	34.20	36	37.80	7.0	5.0	27.4
C1Z39B	37.05	39	40.95	6.5	5.0	29.7
C1Z43B	40.85	43	45.15	6.0	5.0	32.7
C1Z47B	44.65	47	49.35	5.5	5.0	35.8
C1Z50B	47.50	50	52.50	5.1	5.0	37.3
C1Z51B	48.45	51	53.55	5.0	5.0	38.8
C1Z56B	53.20	56	58.80	4.5	5.0	42.6
C1Z62B	58.90	62	65.10	4.0	5.0	47.1
C1Z68B	64.60	68	71.40	3.7	5.0	51.7
C1Z75B	71.25	75	78.75	3.3	5.0	56
C1Z82B	77.90	82	86.10	3.0	5.0	62.2
C1Z91B	86.45	91	95.55	2.8	5.0	69.2

DO-15 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.230	0.300	5.84	7.62
C	0.104	0.140	2.64	3.56
D	1.000	-	25.40	-

DO-15 (REV: R1)

R1

R0 (29-July 2009)

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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