

C1Z100B THRU C1Z330B

SILICON ZENER DIODE  
1 WATT, 100 THRU 330 VOLTS

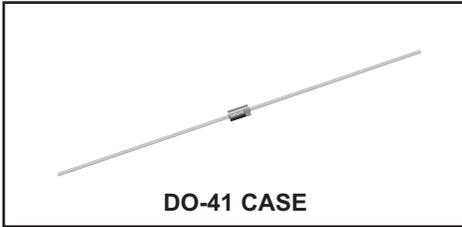


www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR C1Z100B 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**



DO-41 CASE

**MAXIMUM RATINGS:**

Power Dissipation ( $T_A=50^\circ\text{C}$ )  
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**

$P_D$  1.0  
 $T_J, T_{stg}$  -65 to +150  
 $\pm 5$   
 $\pm 2$   
 $\pm 1$

**UNITS**

W  
 $^\circ\text{C}$   
%  
%  
%

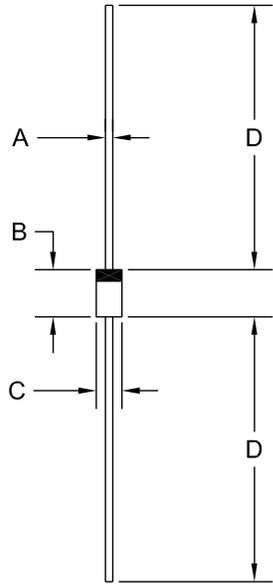
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$ )  $V_F=1.0\text{V MAX @ } I_F=500\text{mA}$  (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT
	MIN	NOM	MAX	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$	$I_R @ V_R$	$I_{ZM}$	
	V	V	V	mA	k $\Omega$	k $\Omega$	$\mu\text{A}$	V	mA	
C1Z100B	95.0	100	105.0	2.5	0.35	3.0	0.25	5.0	76.0	10
C1Z110B	104.5	110	115.5	2.3	0.45	4.0	0.25	5.0	83.6	9.1
C1Z120B	114.0	120	126.0	2.0	0.55	4.5	0.25	5.0	91.2	8.3
C1Z130B	123.5	130	136.5	1.9	0.70	5.0	0.25	5.0	98.8	7.7
C1Z150B	142.5	150	157.5	1.7	1.0	6.0	0.25	5.0	114.0	6.7
C1Z160B	152.0	160	168.0	1.6	1.1	6.5	0.25	5.0	121.6	6.3
C1Z180B	171.0	180	189.0	1.4	1.2	7.0	0.25	5.0	136.8	5.6
C1Z200B	190.0	200	210.0	1.2	1.5	8.0	0.25	5.0	152.0	5.0
C1Z300B	285.0	300	315.0	0.85	5.0	9.0	0.25	5.0	240.0	3.3
C1Z330B	313.5	330	346.5	0.75	5.0	9.0	0.25	5.0	260.0	3.0

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**DO-41 CASE - MECHANICAL OUTLINE**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.160	0.205	4.06	5.21
C	0.080	0.107	2.03	2.72
D	1.000	-	25.40	-

DO-41 (REV: R1)

R1

R2 (21-June 2012)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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**Worldwide Field Representatives:**  
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**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

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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/terms)



<http://www.centrasemi.com>

# Product End of Life Notification

<b>PDN ID:</b>	PDN01163
<b>Notification Date:</b>	12/07/20
<b>Last Buy Date:</b>	Stock Only
<b>Last Shipment Date</b>	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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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.



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Summary: The C1Z Zener diode series is 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>Replacement</u>
C1Z180B TR	N/A, Stock Only
C1Z200B TR	N/A, Stock Only

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](mailto:engineering@centrasemi.com).

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