

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

C1Z100B THRU C1Z330B

1.0 WATT ZENER DIODE  
100 Volts thru 330 Volts

JEDEC DO-41 CASE

## DESCRIPTION

The Central Semiconductor C1Z100B Series Silicon Zener Diode is a high quality epoxy molded voltage regulator for use in industrial, commercial, entertainment and computer applications.

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation (@  $T_A = 50^\circ\text{C}$ )  
Operating and Storage Temperature  
Tolerance "B Suffix"

## SYMBOL

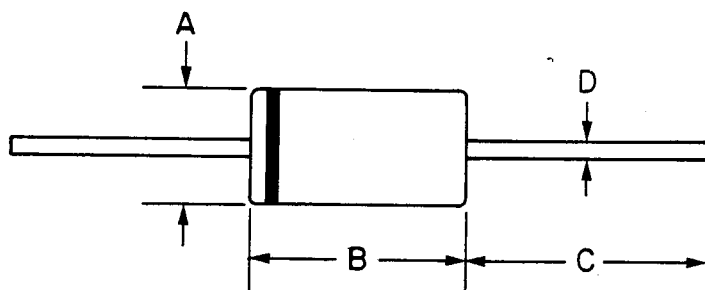
$P_D$  1.0  
 $T_J, T_{STG}$  -65 to +150°C  
 $\pm 5$

## UNIT

W  
°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 Zener Impedance			Maximum Reverse Current		Maximum DC Current
	$V_Z @ I_{Z1}$	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		$I_{ZM}$
	Volts	mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$	Volts	mA
C1Z100B	100	2.5	350	3,000	0.25	5.0	76.0	10
C1Z110B	110	2.3	450	4,000	0.25	5.0	83.6	9.1
C1Z120B	120	2.0	550	4,500	0.25	5.0	91.2	8.3
C1Z130B	130	1.9	700	5,000	0.25	5.0	98.8	7.7
C1Z150B	150	1.7	1,000	6,000	0.25	5.0	114.0	6.7
C1Z160B	160	1.6	1,100	6,500	0.25	5.0	121.6	6.3
C1Z180B	180	1.4	1,200	7,000	0.25	5.0	136.8	5.6
C1Z200B	200	1.2	1,500	8,000	0.25	5.0	152.0	5.0
C1Z300B	300	0.85	5,000	9,000	0.25	5.0	240.0	3.3
C1Z330B	330	0.75	5,000	9,000	0.25	5.0	260.0	3.0



EPOXY MOLDED CASE WITH TIN PLATED LEADS

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.080	.107	2.0	2.7
B	.160	.205	4.1	5.2
C	1.0	—	25.4	—
D	.028	.034	0.71	0.86