

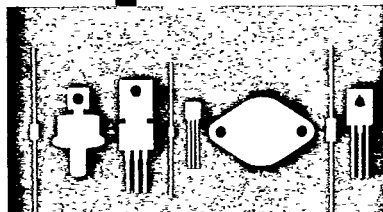
1989963 CENTRAL SEMICONDUCTOR

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Hauppauge, New York 11788

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1N935B
1N936B
1N937B
1N938B
1N939B

TEMPERATURE COMPENSATED
ZENER DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N935B Series types are temperature compensated Zener Diodes designed for applications where long-term voltage stability is required.

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

	<u>SYMBOL</u>		<u>UNIT</u>
Power Dissipation	P_D	500	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +175	$^\circ\text{C}$
Tolerance		± 5	%

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

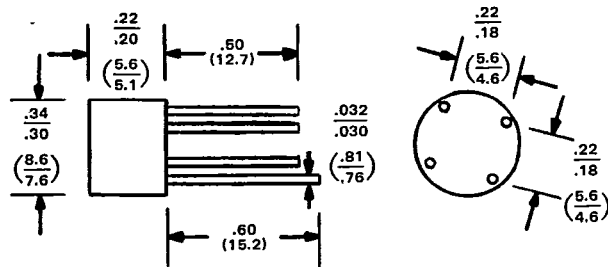
TYPE NO.	ZENER VOLTAGE	ZENER TEST CURRENT	MAX. ZENER IMPEDANCE	VOLTAGE TEMP. STABILITY*	TEMPERATURE COEFFICIENT†
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$\Delta V_Z \text{ MAX}$	
	<u>V</u>	<u>mA</u>	Ω	<u>mV</u>	<u>%/°C</u>
1N935B	9.0	7.5	20	184	0.01
1N936B	9.0	7.5	20	92	0.005
1N937B	9.0	7.5	20	37	0.002
1N938B	9.0	7.5	20	18	0.001
1N939B	9.0	7.5	20	9	0.0005

* The Maximum Allowable change observed over the entire temperature range
(-55 TO +150°C)

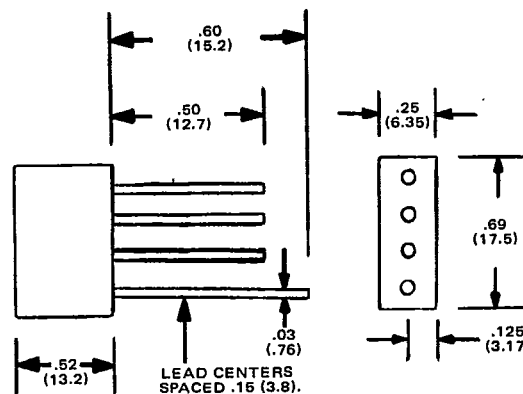
† Typical Value

CASE OUTLINE DRAWINGS

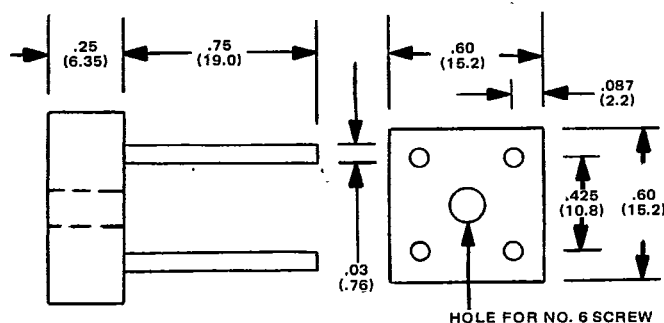
D



CASE A

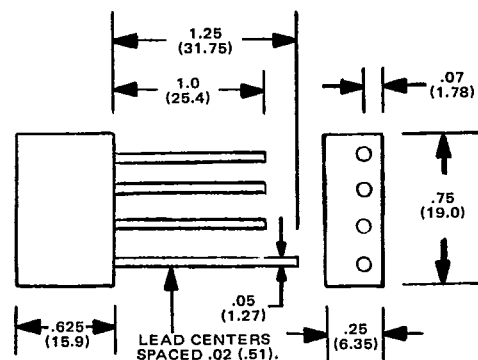
CBR1 Series
CBR2 Series

CASE B

CBR1-L Series
CBR2-L Series

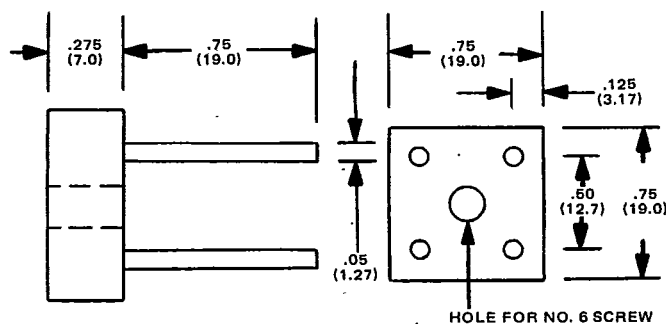
CASE C

CBR3-P Series



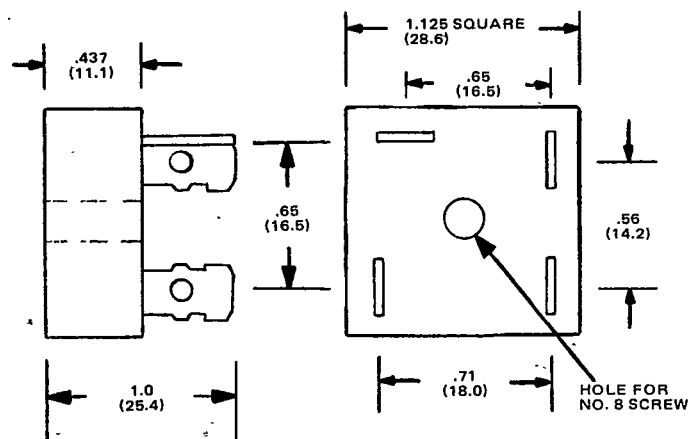
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

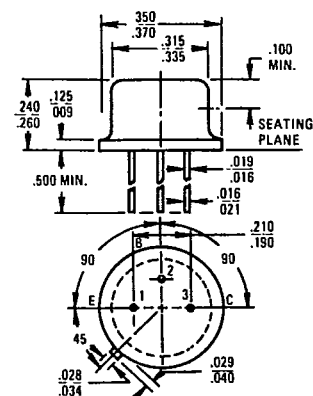
CBR10 Series, CBR25 Series
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

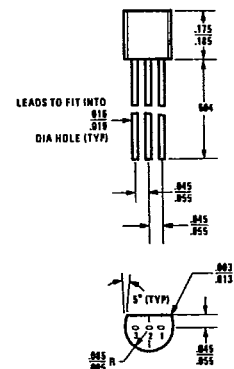
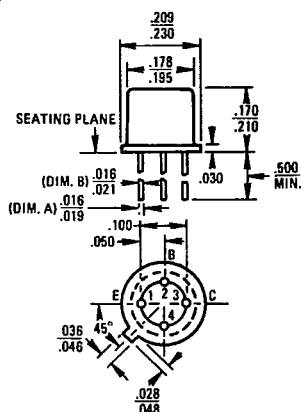
Drawings Not To Scale

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TO-39



TO-92



TO-106

