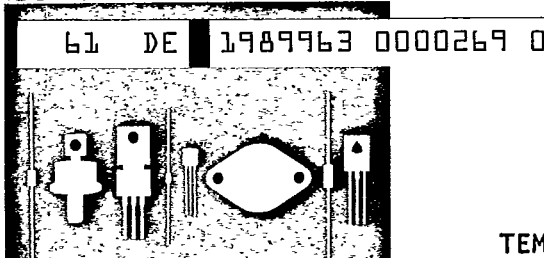


**Central
Semiconductor Corp.**
**Central
Semiconductor Corp.**
**Central
Semiconductor Corp.**
**CentralTM
Semiconductor Corp.**
145 Adams Avenue
Hauppauge, New York 11788



1N821A
1N823A
1N825A
1N827A
1N829A

TEMPERATURE COMPENSATED ZENER DIODE

JEDEC D0-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N821A Series types are temperature compensated Zener Diodes designed for applications where long-term voltage stability is required

MAXIMUM RATINGS ($T_A=50^{\circ}\text{C}$ unless otherwise noted)

	<u>SYMBOL</u>		<u>UNIT</u>
Power Dissipation	P_D	400	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +175	$^{\circ}C$
Tolerance		± 5	%

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

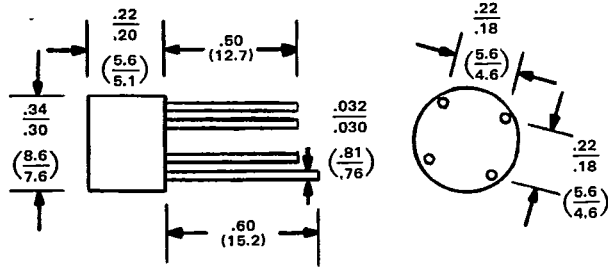
TYPE NO.	ZENER VOLTAGE	ZENER TEST CURRENT	MAX. ZENER IMPEDANCE	VOLTAGE TEMP. STABILITY*	TEMPERATURE COEFFICIENT†
	$V_Z @ I_{ZT}$ <u>V</u>	I_{ZT} <u>mA</u>	$Z_{ZT} @ I_{ZT}$ <u>Ω</u>	$\Delta V_Z \text{ MAX}$ <u>mV</u>	<u>%/°C</u>
1N821A	6.2	7.5	10	96	0.01
1N823A	6.2	7.5	10	48	0.005
1N825A	6.2	7.5	10	19	0.002
1N827A	6.2	7.5	10	9.0	0.001
1N829A	6.2	7.5	10	5.0	0.0005

* The Maximum Allowable change observed over the entire temperature range (-55 TO +100°C)

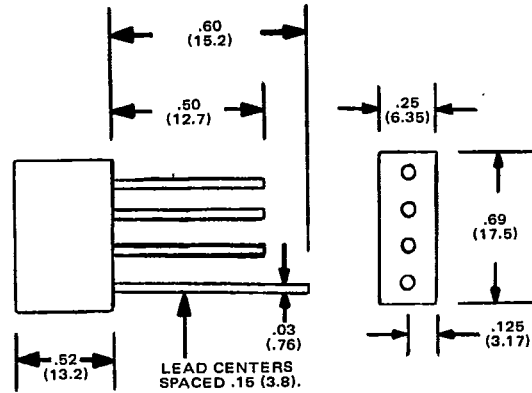
† Typical Value

CASE OUTLINE DRAWINGS

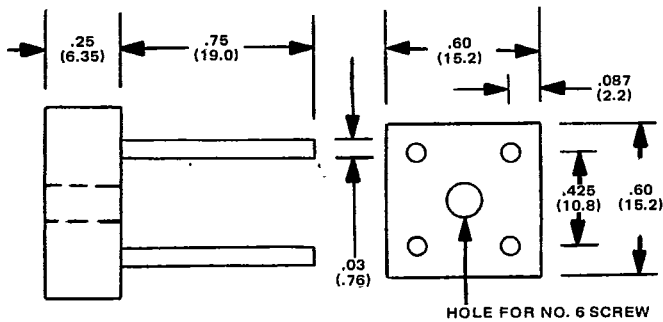
D



CASE A

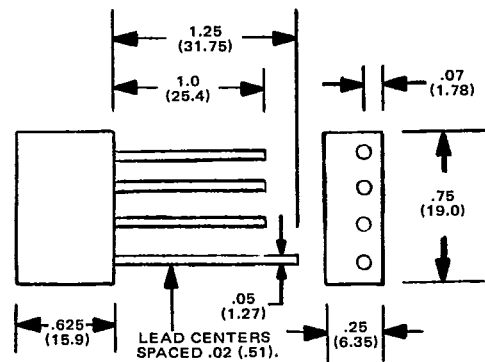
CBR1 Series
CBR2 Series

CASE B

CBR1-L Series
CBR2-L Series

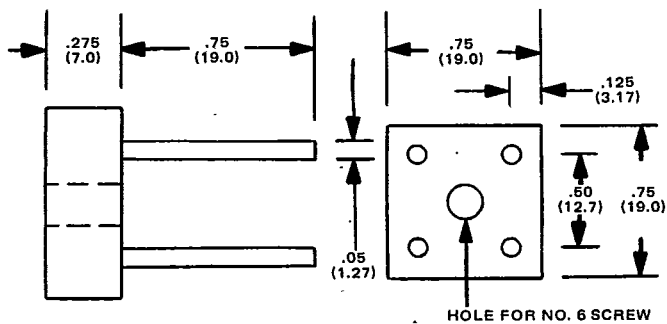
CASE C

CBR3-P Series



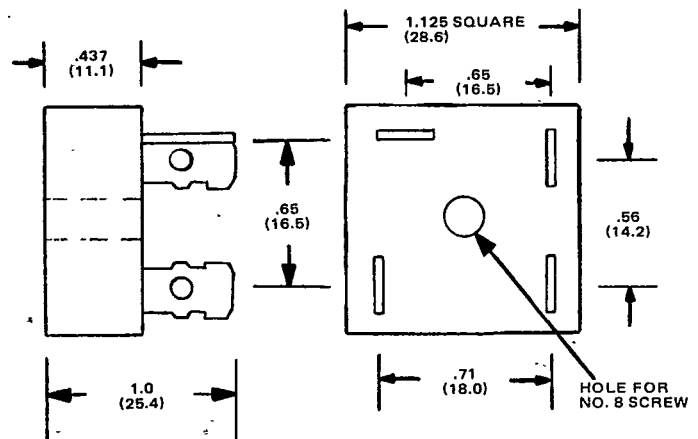
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

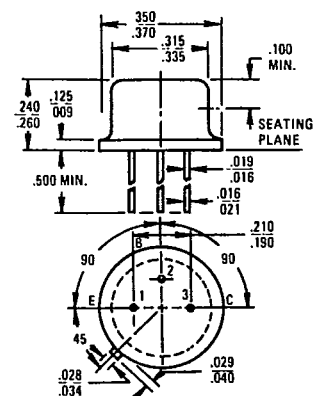
CBR10 Series, CBR25 Series
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

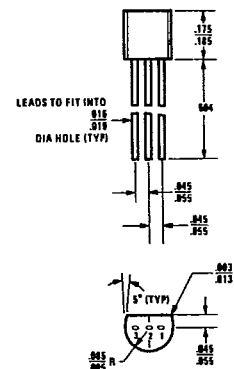
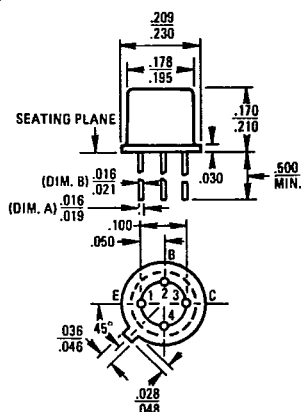
Drawings Not To Scale

カ

TO-39



TO-92



TO-106

