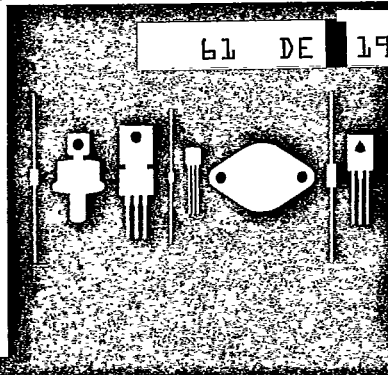


Central
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145 Adams Avenue
Hauppauge, New York 11788

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CR1F SERIES

FAST RECOVERY RECTIFIER

AXIAL LEAD EPOXY CASE (CASE 101)

DESCRIPTION

The CENTRAL SEMICONDUCTOR CR1F Series types are Axial Lead Silicon Rectifiers designed for DC Power Supply and Inverter applications where fast recovery times are needed.

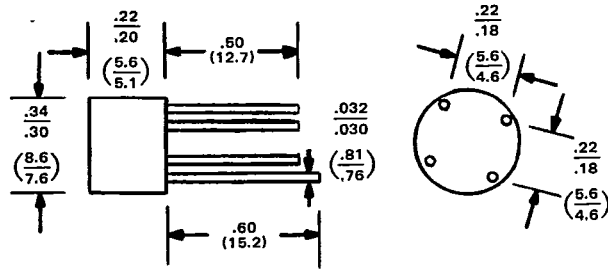
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	CR1F-005	CR1F-010	CR1F-020	CR1F-040	CR1F-060	CR1F-080	CR1F-100	CR1F-120	UNIT
V_{RRM}	50	100	200	400	600	800	1000	1200	V
$V_{R(RMS)}$	35	70	140	280	420	560	700	840	V
I_O ($T_A=80^\circ\text{C}$)				1.5					A
I_{FSM} (8.0ms Duration)				50					A
T_J, T_{stg}				-65 TO +175					$^\circ\text{C}$

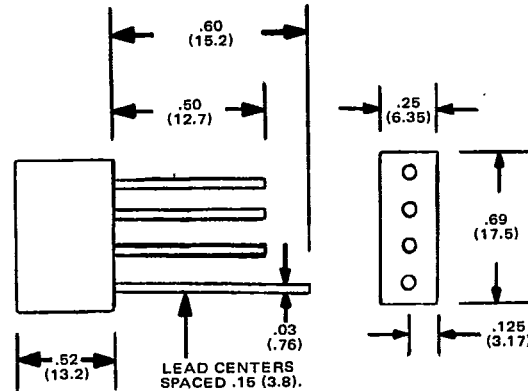
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
I_R	$V_R=V_{RRM}$		5.0	μA
I_R	$V_R=V_{RRM}, T_A=100^\circ\text{C}$		100	μA
V_F	$I_F=1.0\text{A}$		1.2	V
t_{rr}	$I_F=1.0\text{A}, V_R=30\text{V}, (50\text{V thru } 600\text{V})$		150	ns
t_{rr}	$I_F=1.0\text{A}, V_R=30\text{V}, (800\text{V thru } 1200\text{V})$		400	ns
$I_{RM(REC)}$	$I_F=1.0\text{A}, V_R=30\text{V}$		2.0	A

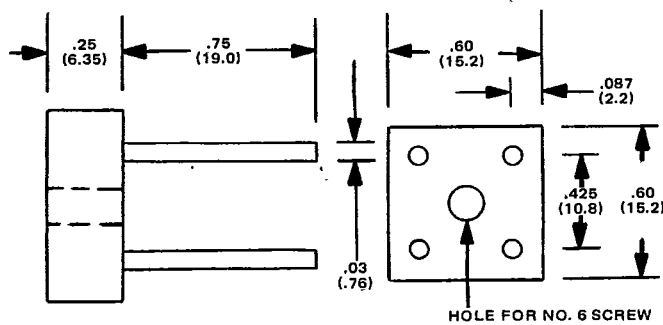
CASE OUTLINE DRAWINGS



CASE A

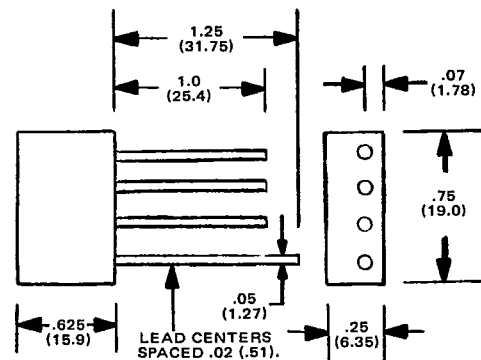
CBR1 Series
CBR2 Series

CASE B

CBR1-L Series
CBR2-L Series

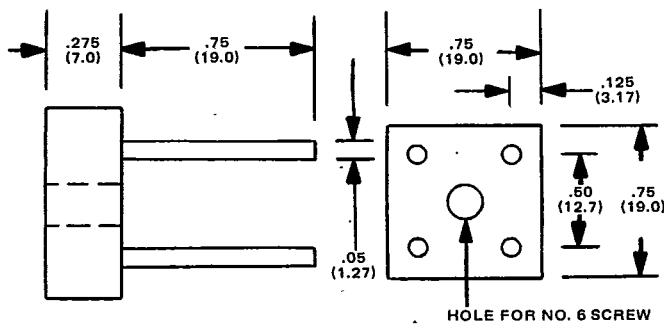
CASE C

CBR3-P Series



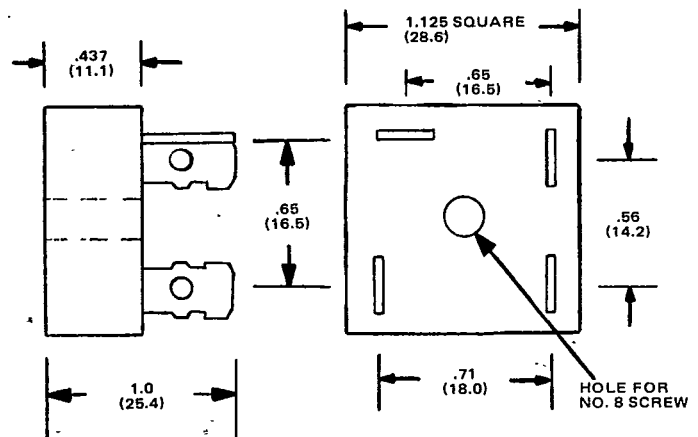
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

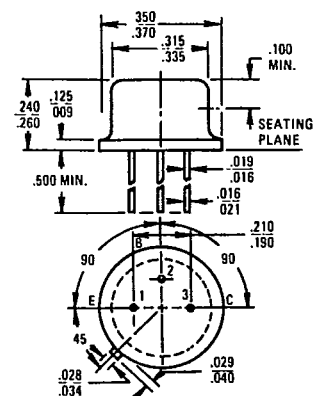
CBR10 Series, CBR25 Series
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

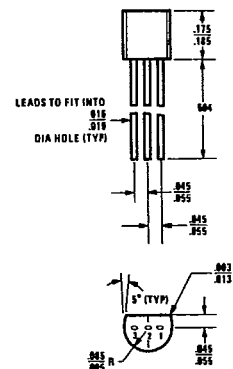
Drawings Not To Scale

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TO-39



TO-92



TO-106

