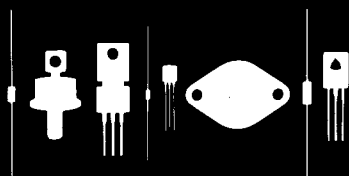


Central  
Semiconductor Corp.

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

145 Adams Avenue  
Hauppauge, New York 11788



FAST RECOVERY  
HIGH VOLTAGE RECTIFIER  
CR250F-X  
250mA  
1000-6000 VOLTS  
AXIAL LEAD EPOXY CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CR250F High Voltage Series is a 250mA Axial Lead High Voltage Rectifier designed for general purpose high voltage applications where space limitation is a factor and a fast reverse recovery time is necessary.

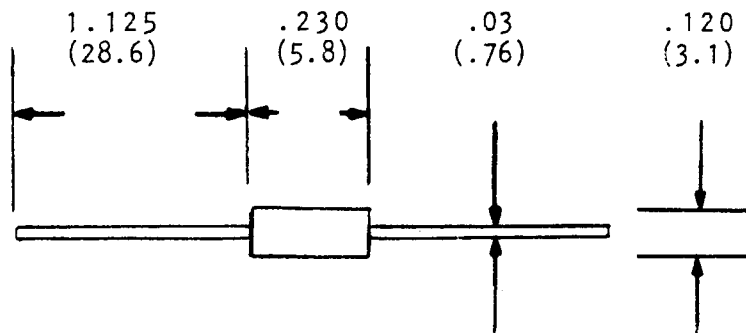
## MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

		CR250F -1	CR250F -2	CR250F -3	CR250F -4	CR250F -5	CR250F -6	UNIT
DC Blocking Voltage	$V_R$	1000	2000	3000	4000	5000	6000	V
Peak Reverse Voltage	$V_{RM}$	1000	2000	3000	4000	5000	6000	V
RMS Reverse Voltage	$V_r$	700	1400	2100	2800	3500	4200	V
Average Forward Current	$I_O$	250	250	250	250	250	250	mA
Peak Forward Current ( $T_A=75^{\circ}\text{C}$ )	$I_{FRM}$	2.0	2.0	2.0	2.0	2.0	2.0	A
Peak Surge Current (Rated $V_R$ , $I_O$ , $T_A=75^{\circ}\text{C}$ , One Cycle)	$I_{FSM}$	20.	20.	20.	20.	20.	20.	A
Operating Junction Temperature	$T_J$	-65 TO +175 $^{\circ}\text{C}$						
Storage Temperature	$T_{stg}$	-65 TO +175 $^{\circ}\text{C}$						

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_R$	$V_R=\text{Rated}$		1.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated}$ , $T_A=100^{\circ}\text{C}$		50	$\mu\text{A}$
$V_F$	$I_F=0.25\text{A}$ (-1, -2)		3.25	V
$V_F$	$I_F=0.25\text{A}$ (-3, -4)		6.75	V
$V_F$	$I_F=0.25\text{A}$ (-5, -6)		9.25	V
$T_{rr}$			200	ns

## OUTLINE DRAWING



Dimensions in inches and (millimeters).

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