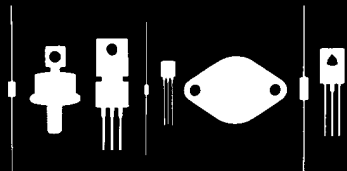


Central  
Semiconductor Corp.  
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Central<sup>TM</sup>  
Semiconductor Corp.

145 Adams Avenue  
Hauppauge, New York 11788



## HIGH VOLTAGE RECTIFIER

CR250-X SERIES

250mA

1000 THRU 6000 VOLTS

AXIAL LEAD EPOXY CASE

### DESCRIPTION

The CENTRAL SEMICONDUCTOR CR250 high voltage series types are 250mA axial lead high voltage rectifiers designed for general purpose high voltage applications where space limitation is a factor.

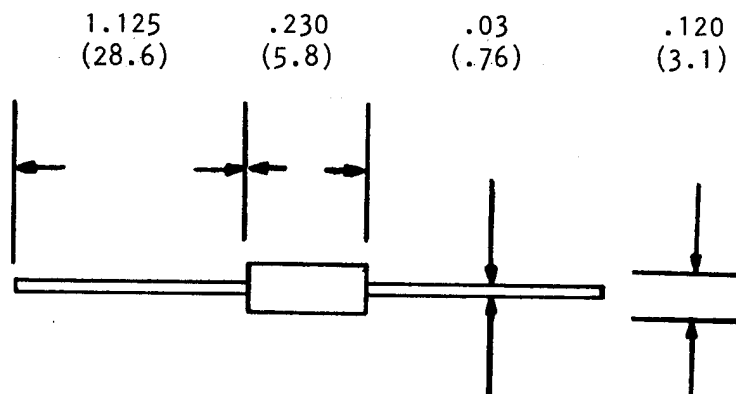
### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

|                                                          | SYMBOL   | CR250<br>-1 | CR250<br>-2 | CR250<br>-3 | CR250<br>-4 | CR250<br>-5 | CR250<br>-6 | UNIT |
|----------------------------------------------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| DC Blocking Voltage                                      | VR       | 1000        | 2000        | 3000        | 4000        | 5000        | 6000        | V    |
| Peak Reverse Voltage                                     | VRM      | 1000        | 2000        | 3000        | 4000        | 5000        | 6000        | V    |
| RMS Reverse Voltage                                      | Vr       | 700         | 1400        | 2100        | 2800        | 3500        | 4200        | V    |
| Average Forward Current                                  | IO       | 250         | 250         | 250         | 250         | 250         | 250         | mA   |
| Peak Surge Current<br>(Rated VR, IO, TA=75°C, One cycle) | IFSM     | 20          | 20          | 20          | 20          | 20          | 20          | A    |
| Operating and Storage<br>Junction Temperature            | TJ, TSTG | -65 TO +175 |             |             |             |             |             | °C   |

### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS    | MIN | MAX | UNIT |
|--------|--------------------|-----|-----|------|
| IR     | VR=Rated           |     | 1.0 | μA   |
| IR     | VR=Rated, TA=100°C |     | 50  | μA   |
| VF     | IF=0.25A (-1, -2)  |     | 2.0 | V    |
| VF     | IF=0.25A (-3, -4)  |     | 4.0 | V    |
| VF     | IF=0.25A (-5, -6)  |     | 6.0 | V    |

### OUTLINE DRAWING:



Dimensions in inches (millimeters)