

T-23-07



# SENSITRON SEMICONDUCTOR

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## TECHNICAL SPECIFICATIONS

**SINGLE PHASE BRIDGE RECTIFIER**  
**THE ALL ALUMINUM CASE IS ELECTRICALLY ISOLATED**  
**FROM THE CIRCUIT FOR EASE IN MOUNTING**

**AVAILABLE WITH**  
**JAN, JANTX OR**  
**JANTXV DIODES**  
**INTERNAL**

### Electrical Specifications

| TYPE<br>NUMBER | 1<br>PIV<br>PER<br>LEG | MAX AVERAGE 2<br>D.C. OUTPUT<br>CURRENT |       |       | PEAK 1<br>CY. SUR.<br>CUR. | PEAK<br>RECUR.<br>SURGE | MAX FWD<br>VOLTAGE<br>PER LEG |     | MAX REVERSE<br>CURRENT AT<br>PIV |       | 3<br>MAX<br>REC.<br>TIME |
|----------------|------------------------|-----------------------------------------|-------|-------|----------------------------|-------------------------|-------------------------------|-----|----------------------------------|-------|--------------------------|
|                |                        | AMPS AT T <sub>c</sub>                  |       |       | 25°C                       | 25°C                    | 25°C                          |     | μ AMPS                           |       |                          |
|                |                        | 55°C                                    | 100°C | 125°C | AMPS                       | AMPS                    | V                             | A   | 25°C                             | 100°C | nSEC                     |
| S463IH         | 1000                   | 12                                      | 9.0   | 6.0   | 125                        | 60                      | 1.4                           | 9.0 | 2.0                              | 100   | 5000                     |
| S463GE         | 600                    | 10                                      | 7.5   | 5.0   | 100                        | 50                      | 1.6                           | 9.0 | 2.0                              | 100   | 150                      |
| S463GC         | 600                    | 9                                       | 6.75  | 4.5   | 100                        | 50                      | 1.75                          | 9.0 | 5.0                              | 100   | 70                       |
| S463FB         | 400                    | 14                                      | 10    | 7.0   | 125                        | 60                      | 1.1                           | 6.0 | 10                               | 100   | 50                       |
| S463CA         | 150                    | 15                                      | 11    | 7.5   | 150                        | 65                      | 1.0                           | 6.0 | 10                               | 100   | 30                       |

Sensitron's high current rectifier assemblies are of the cold case aluminum design. These assemblies will meet the stringent requirements of military and industrial product applications. This rugged mechanical construction combined with permanently stable electrical characteristics makes Sensitron's assemblies the ultimate in quality and reliability.

1. Other PIV ranges available — Consult factory for part number.
2. T<sub>c</sub> = Case Temperature
3. Recovery Conditions I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, t<sub>rr</sub> measured when rectifier recovers to 0.25 Amps.  
 Recovery time measured on discrete diodes prior to assembly  
 Operating and Storage Temperature -55° C to +150° C  
 Maximum Thermal Impedance Junction to Mounting Surface 2° C/W (1.5°) C/W for FB Series

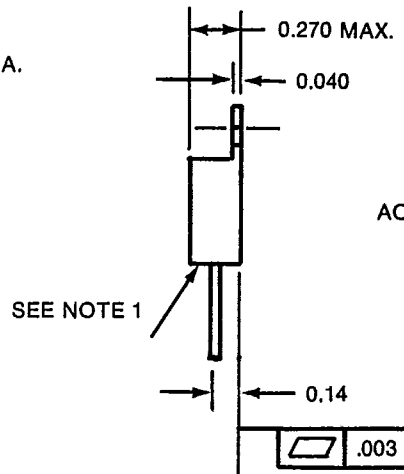
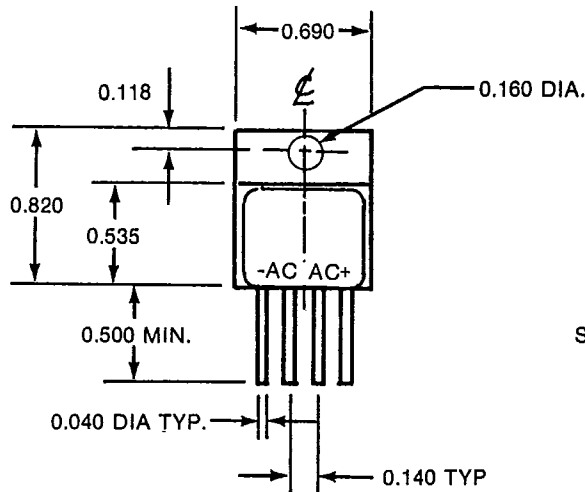
## MECHANICAL CHARACTERISTICS

**Case:** Aluminum Electrically Isolated From Circuit

**Finish:** Black Anodized

**Internal Rectifiers:** Non-Cavity Metallurgically Bonded Glass Hermetic Axial Lead Rectifiers

### MECHANICAL DIMENSIONS FOR RECTIFIER ASSEMBLIES



#### NOTES:

1. Potting Surface Uncontrolled.

## CHARACTERISTIC CURVES

