

**SENSITRON****SEMICONDUCTOR**

221 West Industry Court • Deer Park, NY 11729

Telephone: (516) 586-7600 • Telex 96-7737

FAX 516 242 9798

**TECHNICAL SPECIFICATIONS**

**THREE 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****THREE PHASE SILICON BRIDGE RECTIFIER ASSEMBLIES**

| 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/LEG |       | 3<br>MAX<br>REC.<br>TIME |
|----------------|------------------------|------------------------------------------|-------|-------|----------------------------|-------------------------|--------------------------------|-----|---------------------------------------|-------|--------------------------|
|                |                        | AMPS AT $T_C$                            |       |       | 25°C                       | 25°C                    | 25°C                           |     | $\mu$ AMPS                            |       |                          |
|                | V                      | 55°C                                     | 100°C | 125°C | AMPS                       | AMPS                    | V                              | A   | 25°C                                  | 100°C | $\mu$ SEC                |
| SL63100L       | 1000                   | 7.5                                      | 5.5   | 3.75  | 50                         | 15                      | 1.4                            | 3.0 | 5.0                                   | 100   | 5000                     |
| SL6360FRL      | 600                    | 6.0                                      | 4.5   | 3.0   | 25                         | 9                       | 1.7                            | 3.0 | 5.0                                   | 100   | 150                      |
| SL6315HEL      | 150                    | 10.5                                     | 7.5   | 5.0   | 60                         | 17.5                    | 1.2                            | 3.0 | 5.0                                   | 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.

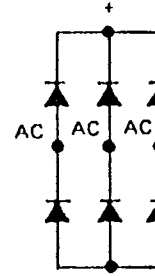
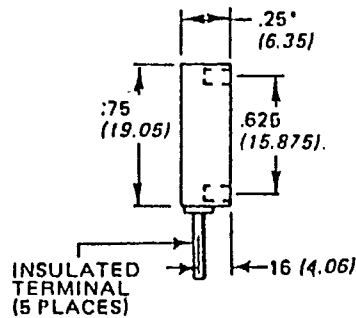
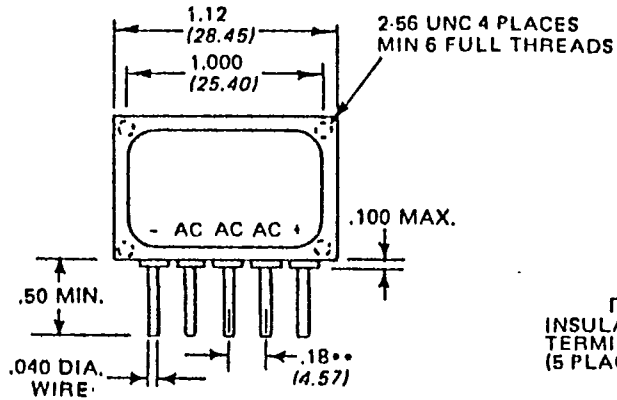
1. Other PIV ranges available - Consult factory for part number.
2.  $T_C$  = Case Temperature
3. Recovery Conditions  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $t_{rr}$  measured when rectifier recovers to 0.25 Amps  
 Recovery time measured on discrete diodes prior to assembly  
 Operating and Storage Temperature -55°C to +150°C  
 Maximum Thermal Impedance Junction to Mounting Surface 4.5°C/W

**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

TOLERANCES-INCHES XX  $\pm .020$   
XXX  $\pm .010$

METRIC XX  $\pm (.508)$  (EXCEPT AS NOTED)  
XXX  $\pm (.254)$



\*POTTING SURFACE UNCONTROLLED

NOTE: PART IS AVAILABLE WITH LEADS BENT AT A 90° ANGLE; CONSULT FACTORY FOR DETAILS.

\*\*G TO G DIM. IS ONLY CONTROLLED ON THE FIRST 0.100" OF THE LEAD LENGTH FROM THE TEFLON BUSHING

## CHARACTERISTIC CURVES

