

**TECHNICAL DATA**  
**DATA SHEET 1046, REV. -****THREE PHASE FULL WAVE  
BRIDGE RECTIFIER ASSEMBLY****DESCRIPTION: A 200/400/600/800/1000 VOLT, 11 AMP, 5000 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.****MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

| RATING                                                                                 | CONDITIONS                                                                         | MIN | TYP | MAX                              | UNIT               |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|-----|----------------------------------|--------------------|
| Peak Inverse Voltage (PIV)<br><br>S10A320<br>S10A340<br>S10A360<br>S10A380<br>S10A3100 | -                                                                                  | -   | -   | 200<br>400<br>600<br>800<br>1000 | Vdc                |
| Average DC Output Current ( $T_C = \text{Case Temp}$ ) ( $I_o$ )                       | $T_C = 55^\circ\text{C}$<br>$T_C = 100^\circ\text{C}$<br>$T_C = 125^\circ\text{C}$ | -   | -   | 11<br>8.0<br>5.5                 | Amps               |
| Average DC Output Current Ambient Temp. (no heat sink) ( $I_o$ )                       | $T_A = 25^\circ\text{C}$<br>$T_A = 55^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$  | -   | -   | 4.0<br>3.0<br>2.0                | Amps               |
| Peak Single Cycle Surge Current ( $I_{FSM}$ )                                          | $t_p = 8.3 \text{ ms}$ Single Half Cycle Sine Wave, Superimposed On Rated Load     | -   | -   | 125                              | Amps(pk)           |
| Peak Recurring Surge Current ( $I_{FRM}$ )                                             | $T_A = 25^\circ\text{C}$                                                           | -   | -   | 60                               | Amps               |
| Operating and Storage Temp. ( $T_{op}$ & $T_{stg}$ )                                   | -                                                                                  | -55 | -   | +150                             | $^\circ\text{C}$   |
| Maximum Forward Voltage ( $V_f$ )                                                      | $I_f = 9.0\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)                   | -   | -   | 1.3                              | Volts              |
| Maximum Instantaneous Reverse Current At Rated (PIV)                                   | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$                              | -   | -   | 2.0<br>100                       | $\mu\text{Amps}$   |
| Reverse Recovery Time ( $t_{rr}$ )                                                     | $I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$                | -   | -   | 5000                             | nsec               |
| Thermal Resistance ( $\theta_{JL}$ )                                                   | -                                                                                  | -   | -   | 3.0                              | $^\circ\text{C/W}$ |

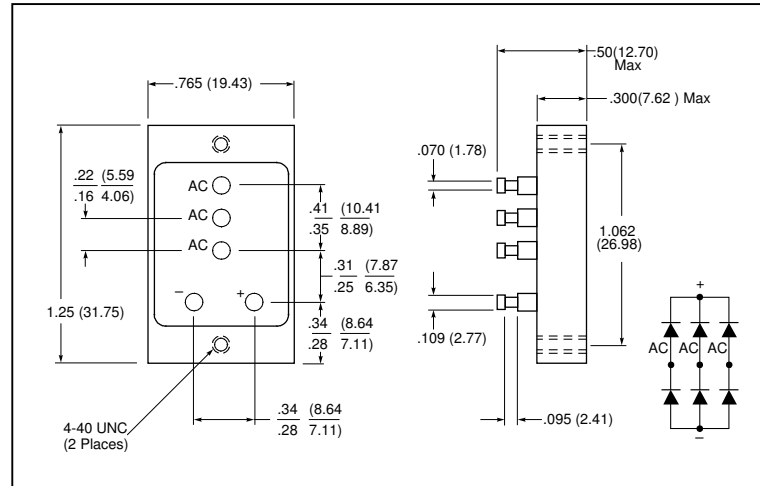
S10A320  
S10A340  
S10A360  
S10A380  
S10A3100

SENSITRON

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**MECHANICAL DIMENSIONS: In Inches / mm**



**FIG. 410**

Notes:

Case finish - Black Anodized

Potted dimension - uncontrolled

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