

TECHNICAL DATA
DATA SHEET 316, REV -**THREE PHASE FULL WAVE
BRIDGE RECTIFIER ASSEMBLY****DESCRIPTION: 1000 VOLT, 30 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) | - | - | - | 1000 | Vdc |
| Average DC Output Current ($T_C = \text{Case Temp}$) (I_o) | $T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$ | - | - | 30 22 15 | Amps |
| Average DC Output Current Ambient Temp. (no heat sink) (I_o) | $T_A = 25^\circ\text{C}$ $T_A = 55^\circ\text{C}$ $T_A = 100^\circ\text{C}$ | - | - | 7.0 5.5 3.5 | Amps |
| Peak Single Cycle Surge Current (I_{FSM}) | $t_p = 8.3 \text{ ms}$ Single Half Cycle Sine Wave, Superimposed On Rated Load | - | - | 150 | Amps(pk) |
| Peak Recurring Surge Current (I_{FRM}) | $T_A = 25^\circ\text{C}$ | - | - | 75 | 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 μsec pulse, duty cycle < 2%) | - | - | 1.4 | Volts |
| Maximum Instantaneous Reverse Current At Rated (PIV) | $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ | - | - | 5.0 100 | μAmps |
| 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 (θ_{JL}) | - | - | - | 1.25 | $^\circ\text{C/W}$ |

Note: Add a suffix **S** to the part number for **JAN-S Level Screening**.

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MECHANICAL DIMENSIONS: In Inches / mm

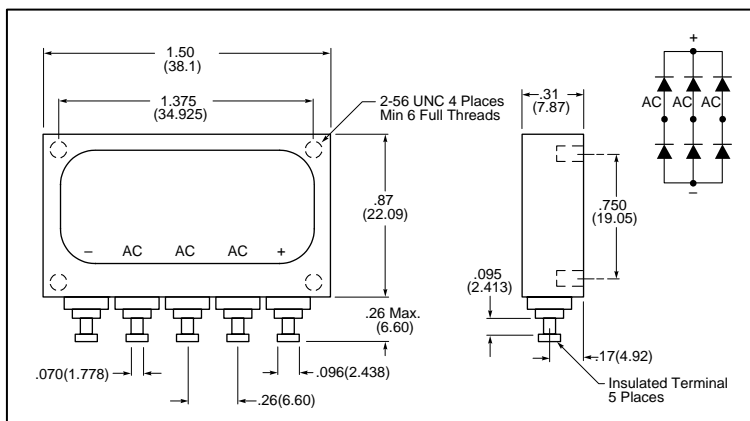


FIG. 406

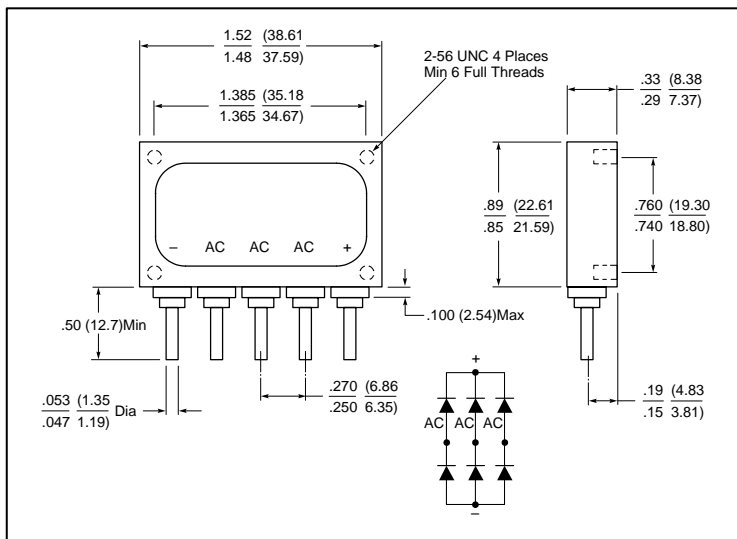


FIG. 406L

Note: Case finish - Black Anodized

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