**TECHNICAL DATA**
**DATA SHEET 5417, REV. D**

# THREE PHASE FULL WAVE RECTIFIER ASSEMBLY

**DESCRIPTION: Super fast recovery, fast recovery, general purpose, 3-phase full wave rectifier assembly.**

**MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS: All ratings are at $t_c$ = 25ºC unless otherwise specified.**

**MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE: ($t_c$, $t_{stg}$) = -55ºC to + 150ºC.**

**OPTION: Add suffix "S" to the part number for S-100 screening.**

**DIELECTRIC: A Dielectric Withstanding Voltage test will be performed with the metal case of the assembly connected to ground and all terminals connected to the high potential side of a DC power supply or scope display test. Voltage applied shall be 2800 Vdc and held for 10 seconds.**

**WEIGHT: 18 gms max.**

| TYPE NUMBER | PEAK INVERSE VOLTAGE (PER LEG) | MAX. AVERAGE DC OUTPUT CURRENT | | PEAK 1 CYCLE SURGE CURRENT $t_p$ = 8.3 msec (PER LEG) | MAX. FORWARD VOLTAGE DROP (PER LEG) | | MAX. REVERSE CURRENT $I_r$ @ PIV (PER LEG) (µA) | | MAX. THERMAL RESISTANCE $R_{\theta JC}$ (PER LEG) | MAX. REVERSE REC. TIME (PERLEG) $I_F$ = 0.5A, $I_R$ = 1.0A, $T_{RR}$ = 0.25A |
|---|---|---|---|---|---|---|---|---|---|---|
| | Volts | 55ºC | 100ºC | Amps | Volts | Amps | 25ºC | 100ºC | ºC/W | ns |
| S10A305FR | 50 | 10 | 7 | 80 | 1.60 | 9 | 5 | 100 | 1.7 | 180 |
| S10A305HE | 50 | 15 | 9 | 80 | 1.10 | 5 | 10 | 100 | 1.7 | 40 |
| S10A310FR | 100 | 10 | 7 | 80 | 1.60 | 9 | 5 | 100 | 1.7 | 180 |
| S10A310HE | 100 | 15 | 9 | 80 | 1.10 | 5 | 10 | 100 | 1.7 | 40 |
| S10A315HE | 150 | 15 | 9 | 80 | 1.10 | 5 | 10 | 100 | 1.7 | 40 |
| S10A320 | 200 | 11 | 8 | 80 | 1.40 | 9 | 5 | 100 | 1.7 | 5000 |
| S10A320FR | 200 | 10 | 7 | 80 | 1.60 | 9 | 5 | 100 | 1.7 | 180 |
| S10A320S7 | 200 | 9 | 6.3 | 80 | 1.75 | 9 | 5 | 100 | 2.5 | 85 |
| S10A340 | 400 | 11 | 8 | 80 | 1.40 | 9 | 5 | 100 | 1.7 | 5000 |
| S10A340FR | 400 | 10 | 7 | 80 | 1.60 | 9 | 5 | 100 | 1.7 | 180 |
| S10A340S7 | 400 | 9 | 6.3 | 80 | 1.75 | 9 | 5 | 100 | 2.5 | 85 |
| S10A360 | 600 | 11 | 8 | 80 | 1.40 | 9 | 5 | 100 | 1.7 | 5000 |

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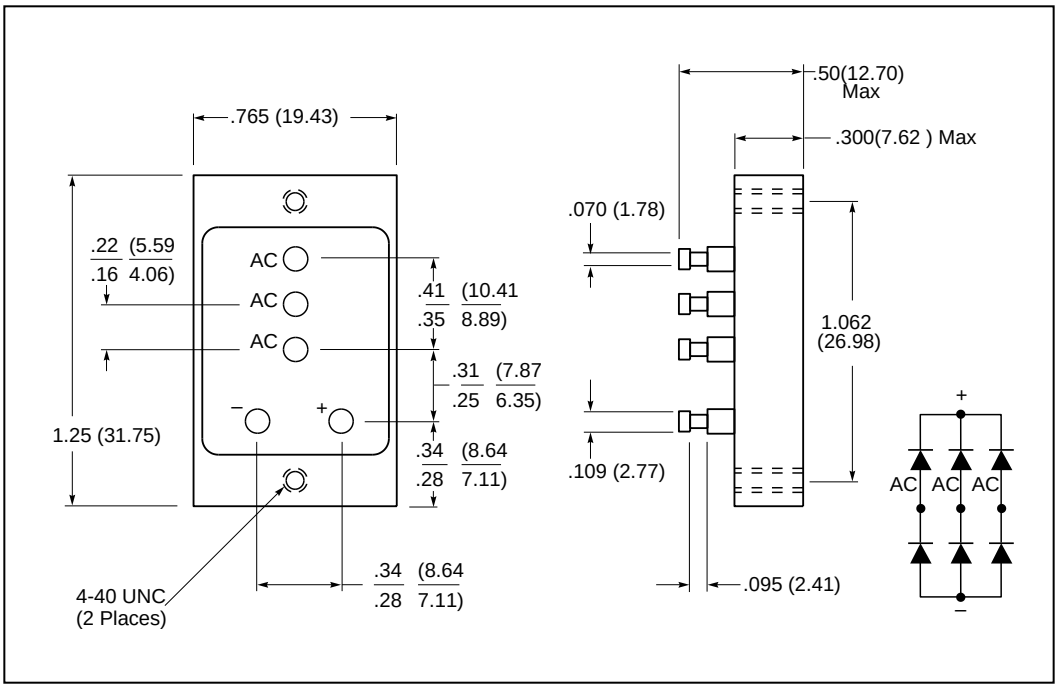
|---|---|---|---|---|---|---|---|---|---|---|
| | Volts | 55ºC | 100ºC | Amps | Volts | Amps | 25ºC | 100ºC | ºC/W | ns |
| S10A360FR | 600 | 10 | 7 | 80 | 1.60 | 9 | 5 | 100 | 1.7 | 180 |
| S10A360S7 | 600 | 9 | 6.3 | 80 | 1.75 | 9 | 5 | 100 | 2.5 | 85 |
| S10A380 | 800 | 11 | 8 | 80 | 1.40 | 9 | 5 | 100 | 1.7 | 5000 |
| S10A3100 | 1000 | 11 | 8 | 80 | 1.40 | 9 | 5 | 100 | 1.7 | 5000 |
| S10A3100FR | 1000 | 9 | 6.3 | 80 | 1.75 | 9 | 5 | 100 | 2.5 | 250 |
| S10A3100S7 | 1000 | 9 | 6.3 | 80 | 2.40 | 9 | 5 | 100 | 2.5 | 80 |

**MECHANICAL DIMENSIONS: In Inches / mm**




**CAT. 410**

**CASE:** Black anodized
**POTTING SURFACE:** Uncontrolled

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