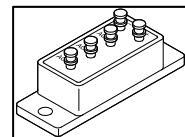


**TECHNICAL DATA**  
**DATA SHEET 4315, REV. A**

## **THREE PHASE FULL WAVE RECTIFIER ASSEMBLY**



**DESCRIPTION:** A 1000 VOLT, 40 AMP, 5000 NS 3-PHASE FULL WAVE RECTIFIER ASSEMBLY.

### **MAXIMUM RATINGS**

ALL RATINGS ARE AT  $T_c = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

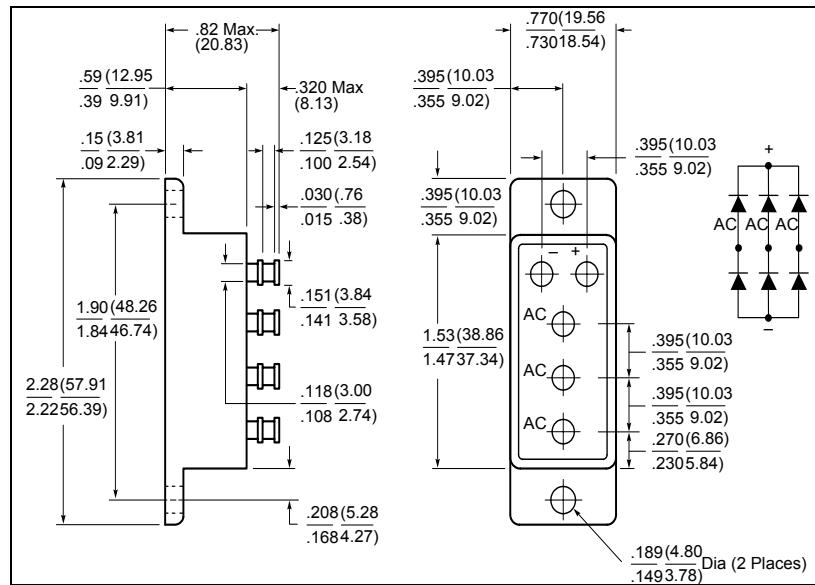
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	1000	Volts
MAXIMUM DC OUTPUT CURRENT $(T_c = 55^\circ\text{C})$ $(T_c = 100^\circ\text{C})$	$I_o$	40 24	Amps Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3 \text{ msec.}$ (PER LEG)	$I_{FSM}$	300	Amps
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.85	$^\circ\text{C/W}$
MAXIMUM JUNCTION TEMPERATURE RANGE	$T_J$	175	$^\circ\text{C}$
OPERATING AND STORAGE TEMPERATURE RANGE	$T_c, T_{stg}$	-55 to + 150	$^\circ\text{C}$

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) ( $I_f = 10 \text{ AMPS}$ )	$V_f$	1.5	Volts
MAXIMUM REVERSE CURRENT $I_r$ @ PIV (PER LEG) $(T_c = 25^\circ\text{C})$ $(T_c = 100^\circ\text{C})$	$I_r$	20 200	$\mu\text{A}$ $\mu\text{A}$
MAXIMUM REVERSE RECOVERY TIME $(I_f = 0.5\text{A}, I_r = 1.0\text{A}, t_{rr} = 0.25\text{A})$	$t_{rr}$	300	ns

**TECHNICAL DATA**  
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**MECHANICAL DIMENSIONS: In Inches / mm**



**Fig. 424**

\*Case--black anodized. Potting surface--uncontrolled

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