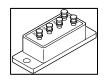


TECHNICAL DATA DATA SHEET 1052, REV. A

# 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  $T_C = 25$  C UNLESS OTHERWISE SPECIFIED

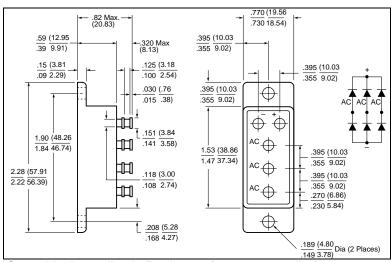
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	1000	Volts
MAXIMUM DC OUTPUT CURRENT $(T_C = 55  {}^{\circ}\text{C})$	Io	40	Amps
$(T_C = 100 {}^{\circ}C)$		24	Amps
PEAK SINGLE CYCLE SURGE CURRENT t <sub>p</sub> = 8.3 msec. (PER LEG)	I <sub>FSM</sub>	300	Amps
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.85	°C/W
MAXIMUM JUNCTION TEMPERATURE RANGE	TJ	175	°C
OPERATING AND STORAGE TEMPERATURE RANGE	T <sub>c,</sub> T <sub>stg</sub>	-55 to + 150	°C

## **ELECTRICAL CHARACTRISTICS**

CHARACTRISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) (I <sub>f</sub> = 10 AMPS)	V <sub>f</sub>	1.2	Volts
MAXIMUM REVERSE CURRENT I <sub>r</sub> @ PIV (PER LEG) $(T_C = 25^{\circ}C)$	I <sub>r</sub>	10	μА
$T_C = 100$ $^{\circ}$ C)		200	μА
MAXIMUM REVERSE RECOVERY TIME $(I_f = 0.5A, I_r = 1.0A, t_{rr} = 0.25A)$	t <sub>rr</sub>	5000	ns

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#### **MECHANICAL DIMENSIONS: In Inches / mm**



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

Fig. 424

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