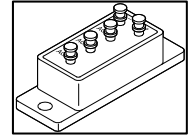


TECHNICAL DATA
DATA SHEET 4293, REV. C



THREE PHASE FULL WAVE RECTIFIER ASSEMBLY

DESCRIPTION: 600 VOLT, 25 AMP, 5000 NS 3-PHASE FULL WAVE RECTIFIER ASSEMBLY.

FEATURE: A Dielectric Withstanding Voltage test will be performed with the metal case of the assembly connected to ground and all four 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.

MAX RATINGS/ELECTRICAL CHARACTERISTICS ALL RATINGS ARE AT $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	600	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) ($I_f = 39 \text{ Adc}$) I_f @ 300 μsec pulse, duty cycle < 2%	V_f	1.2	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 55^\circ\text{C}$) ($T_C = 100^\circ\text{C}$)	I_o	25 18.5	Amps Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3 \text{ ms}$ Single Half Cycle Sine Wave, Superimposed On Rated Load	I_{FSM}	150	Amps
MAXIMUM REVERSE RECOVERY TIME ($I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, t_{rr} measure @ 0.25A)	t_{rr}	5000	ns
MAXIMUM REVERSE CURRENT I_r @ PIV (PER LEG) ($T_C = 25^\circ\text{C}$) $T_C = 100^\circ\text{C}$	I_r	1.0 200	μA μA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	1.5	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{J, stg}$	-55 to + 150	$^\circ\text{C}$

Side View Dimensions:

- Overall Height: 2.28 (57.91) / 2.22 (56.39)
- Mounting Hole Spacing: .82 Max. (20.83)
- Mounting Hole Diameter: .125 (3.18) / .100 (2.54)
- Mounting Hole Position: .15 (3.81) / .09 (2.29)
- Terminal Spacing: .320 Max (8.13)
- Terminal Position: .125 (3.18) / .100 (2.54)
- Terminal Spacing: .030 (.76) / .015 (.38)
- Terminal Spacing: .151 (3.84) / .141 (3.58)
- Terminal Spacing: .118 (3.00) / .108 (2.74)
- Terminal Spacing: .208 (5.28) / .168 (4.27)

Top View Dimensions:

- Overall Width: 1.770 (19.56) / .730 (18.54)
- Mounting Hole Spacing: .395 (10.03) / .355 (9.02)
- Mounting Hole Diameter: .189 (4.80) / .149 (3.78) Dia (2 Places)
- Terminal Spacing: .395 (10.03) / .355 (9.02)
- Terminal Spacing: .153 (38.86) / 1.47 (37.34)
- Terminal Spacing: .395 (10.03) / .355 (9.02)
- Terminal Spacing: .395 (10.03) / .355 (9.02)
- Terminal Spacing: .395 (10.03) / .355 (9.02)
- Terminal Spacing: .270 (6.86) / .230 (5.84)

Bridge Circuit Diagram:

- AC Input: AC
- DC Output: +, -

Fig. 424

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