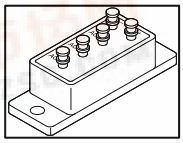
S424GH

SENSITRON
SEMICONDUCTOR

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

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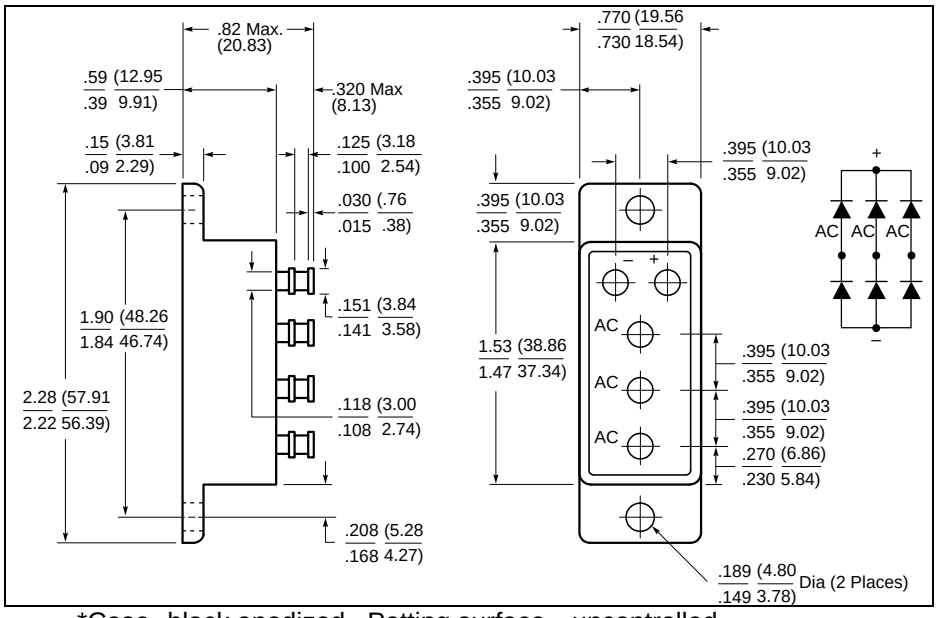
MECHANICAL DIMENSIONS: In Inches / mm



*Case--black anodized. Potting surface—uncontrolled

Fig. 424

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