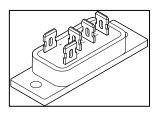
<u>SENSITRON</u> SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 4253, REV A

THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY



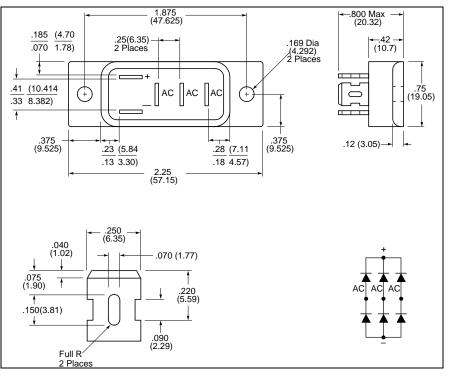
DESCRIPTION: A 50 VOLT, 5000 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

MAXIMUM RATINGS	All ratings are at $T_A = 25^{\circ}C$ unless otherwise specified.				
RATING	CONDITIONS	MIN	ТҮР	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	50	Vdc
Average DC Output Current (T_c = Case Temp) (I_o)	T _C = 55 °C T _C = 100 °C T _C = 125 °C	-	-	18.5 12.5 9.0	Amps
Average DC Output Current Ambient Temp. (no heat sink) (I ₀)	$T_A = 25 ^{\circ}C$ $T_A = 55 ^{\circ}c$ $T_A = 100 ^{\circ}c$	-	-	6.0 5.0 3.0	Amps
Peak Single Cycle Surge Current (I _{FSM})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Thermal Resistance (θ_{JL})	-	-	-	2.5	°C/W
Operating and Storage Temp. $(T_{op} \& T_{stg})$	-	-55	-	+150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	CONDITIONS	MIN	TYP	MAX	UNIT
Maximum Forward Voltage (V _f)	l _f = 3A (300 μsec pulse, duty cycle < 2%)	-	-	1.0	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T _A = 25° C	-	-	3.0	μAmps
	$T_A = 100^\circ C$			60	
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$	-	-	2000	nsec

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MECHANICAL DIMENSIONS: In Inches / mm

FIG. 404

Note: Case finish - Black Anodized

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