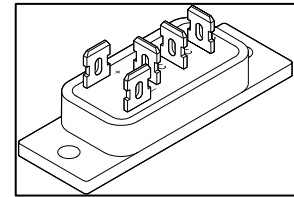


TECHNICAL DATA  
DATA SHEET 4253, REV A

**THREE PHASE FULL WAVE  
BRIDGE RECTIFIER ASSEMBLY**



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

**MAXIMUM RATINGS**

All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	50	Vdc
Average DC Output Current ( $T_C = \text{Case Temp}$ ) ( $I_o$ )	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	18.5 12.5 9.0	Amps
Average DC Output Current Ambient Temp. (no heat sink) ( $I_o$ )	$T_A = 25^\circ\text{C}$ $T_A = 55^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	6.0 5.0 3.0	Amps
Peak Single Cycle Surge Current ( $I_{FSM}$ )	$t_p = 8.3 \text{ ms}$ Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Thermal Resistance ( $\theta_{JL}$ )	-	-	-	2.5	$^\circ\text{C/W}$
Operating and Storage Temp. ( $T_{op}$ & $T_{stg}$ )	-	-55	-	+150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	CONDITIONS	MIN	TYP	MAX	UNIT
Maximum Forward Voltage ( $V_f$ )	$I_f = 3\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.0	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	3.0 60	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	-	-	2000	nsec

SENSITRON

TECHNICAL DATA

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## MECHANICAL DIMENSIONS: In Inches / mm

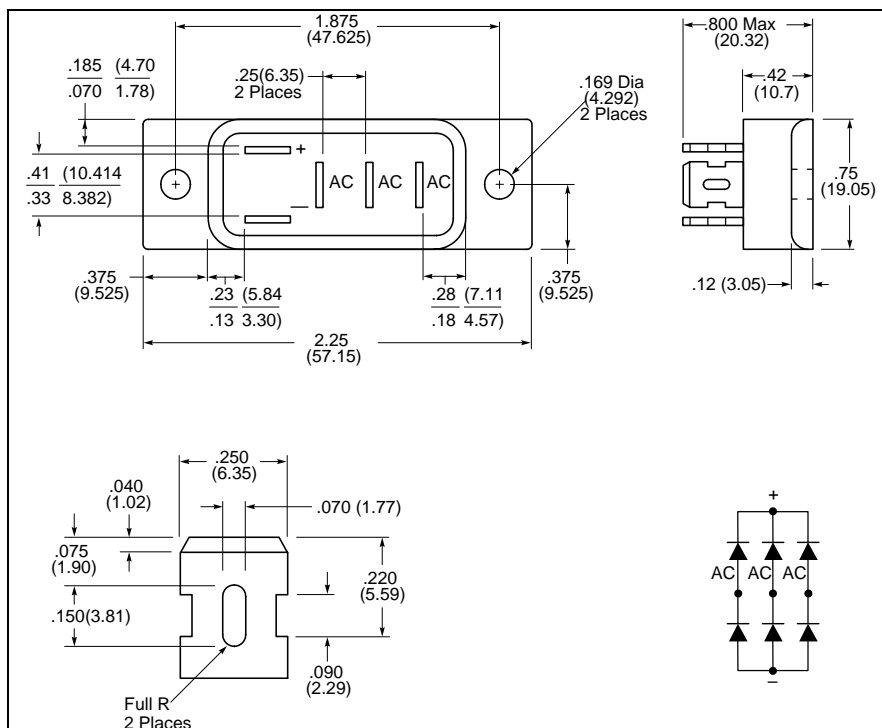


FIG. 404

Note: Case finish - Black Anodized

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