

TECHNICAL DATA  
DATA SHEET 198, REV A

**THREE PHASE FULL WAVE  
BRIDGE RECTIFIER ASSEMBLY**

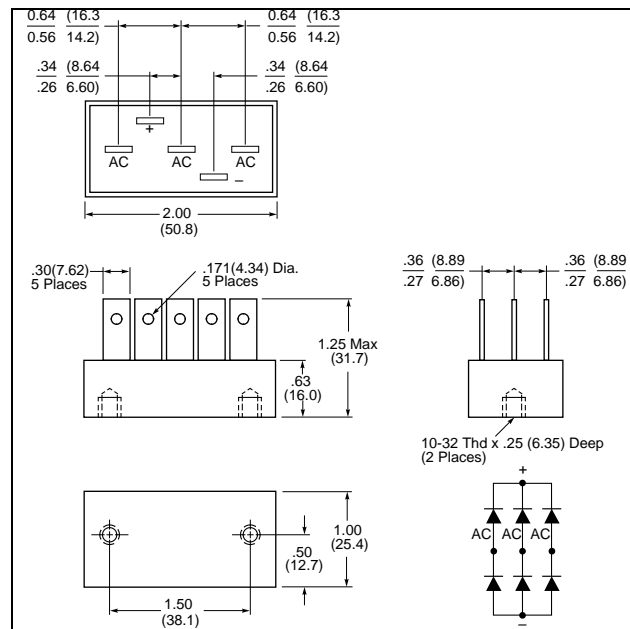
**DESCRIPTION: 1000 VOLT, 45 AMP, 175 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.**

**MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^{\circ}\text{C}$  unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	1000	Vdc
Average DC Output Current ( $T_C = \text{Case Temp}$ ) ( $I_o$ )	$T_C = 55^{\circ}\text{C}$ $T_C = 100^{\circ}\text{C}$ $T_C = 125^{\circ}\text{C}$	-	-	45 30 22.5	Amps
Average DC Output Current (no heat sink) ( $I_o$ )	$T_A = 25^{\circ}\text{C}$ $T_A = 55^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	-	-	11.25 9.0 5.4	Amps
Peak Single Cycle Surge Current ( $I_{FSM}$ )	$t_p = 8.3 \text{ ms}$ Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	300	Amps(pk)
Peak Recurring Surge Current ( $I_{FRM}$ )	$T_A = 25^{\circ}\text{C}$	-	-	150	Amps
Operating and Storage Temp. ( $T_{op}$ & $T_{stg}$ )	-	-55	-	+150	$^{\circ}\text{C}$
Maximum Forward Voltage ( $V_f$ )	$I_f = 10\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.35	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	-	-	20 200	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	-	-	250	nsec
Thermal Resistance ( $\theta_{JL}$ )	-	-	-	0.9	$^{\circ}\text{C/W}$

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



**Fig. 412**

Note: Case finish - Black Anodized

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