<u>SENSITRON</u> SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 712, REV. C

THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

DESCRIPTION: 600 VOLT, 9.5 AMP, 180 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

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

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	600	Vdc
Average DC Output Current (T_c = Case Temp) (I_o)	T _C = 55 °C	-	-	9.5	Amps
	$T_{\rm C} = 100 {}^{\circ}{\rm C}$			7.0	
	T _C = 125 °C			5.0	
Average DC Output Current Ambient Temp. (no heat sink) (I _o)	$T_A = 25 ^{\circ}C$	-	-	4.0	Amps
	$T_A = 55^{\circ}c$			3.0	
	$T_{A} = 100^{\circ} c$			2.0	
Peak Single Cycle Surge Current (I _{FSM})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Peak Recurring Surge Current (I _{FRM})	T _A = 25 °C	-	-	50	Amps
Operating and Storage Temp. (T _{op} & T _{sta})	-	-55	-	+150	°C
Maximum Forward Voltage (V _f)	l _f = 9.0A (300 μsec pulse, duty cycle < 2%)	-	-	1.6	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ C$	-	-	2.0	μAmps
	$T_A = 100^\circ C$			100	
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$	-	-	180	nsec
Thermal Resistance (θ_{JL})	-	-	-	3.0	°C/W

221 West Industry Court E Deer Park, NY 11729-4681 Phone (631) 586 7600 Fax (631) 242 9798 •
World Wide Web - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

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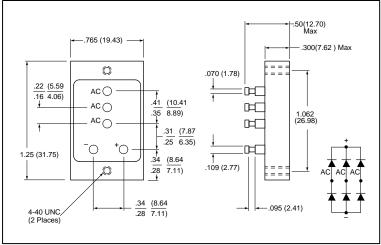
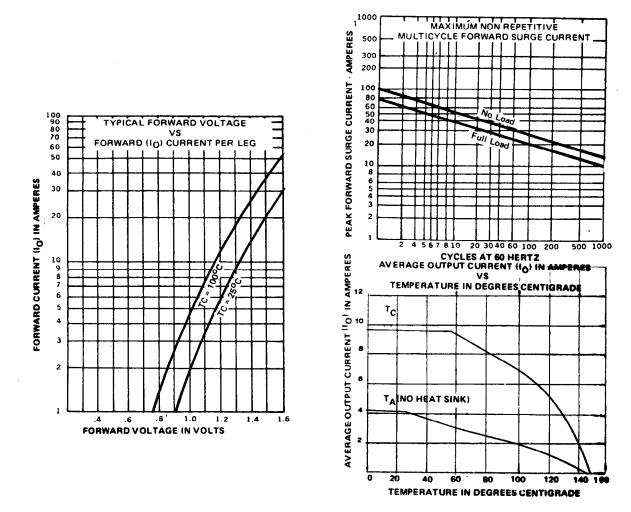


FIG. 410

Note: Case finish - Black Anodized

CHARACTERISTICS CURVES



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