

TECHNICAL DATA DATA SHEET 1046, REV. -

# THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

DESCRIPTION: A 200/400/600/800/1000 VOLT, 11 AMP, 5000 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)	-	-	-		Vdc
S10A320 S10A340 S10A360 S10A380 S10A3100				200 400 600 800 1000	
Average DC Output Current ( $T_C$ = Case Temp) ( $I_o$ )	$T_{C} = 55$ °C $T_{C} = 100$ °C $T_{C} = 125$ °C	1	-	11 8.0 5.5	Amps
Average DC Output Current Ambient Temp. (no heat sink) (I <sub>o</sub> )	$T_A = 25$ °C $T_A = 55$ °C $T_A = 100$ °C	1	-	4.0 3.0 2.0	Amps
Peak Single Cycle Surge Current (I <sub>FSM</sub> )	t <sub>p</sub> = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	125	Amps(pk)
Peak Recurring Surge Current (I <sub>FRM</sub> )	$T_A = 25$ °C	-	-	60	Amps
Operating and Storage Temp. (T <sub>op</sub> & T <sub>stg</sub> )	-	-55	-	+150	°C
$\begin{array}{cc} \text{Maximum Forward} \\ \text{Voltage} & (V_{\text{f}}) \end{array}$	$I_f$ = 9.0A (300 µsec pulse, duty cycle < 2%)	ı	-	1.3	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T <sub>A</sub> = 25° C T <sub>A</sub> = 100° C	-	-	2.0 100	μAmps
Reverse Recovery Time (t <sub>rr</sub> )	$I_f = 0.5A, I_r = 1.0A, I_{rr}$ = 0.25A	-	-	5000	nsec
Thermal Resistance (θ <sub>JL</sub> )	-	-	-	3.0	°C/W

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## **SENSITRON**

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#### **MECHANICAL DIMENSIONS: In Inches / mm** -50(12.70) Max -.765 (19.43) .300(7.62) Max 0 .070 (1.78) .22 (5.59 AC 🔾 哖 .16 4.06) .41 (10.41 AC 🔾 .35 8.89) AC ( 匸 .31 (7.87 .25 6.35) $^{\dagger}$ $\overline{\circ}$ 屸 1.25 (31.75) .34 .28 (8.64 7.11) .109 (2.77) O -.095 (2.41) 4-40 UNC (2 Places)

FIG. 410

Notes: Case finish - Black Anodized Potted dimension - uncontrolled



### **TECHNICAL DATA**

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