

**TECHNICAL DATA**  
**DATA SHEET 2010, REV. A****THREE PHASE FULL WAVE  
BRIDGE RECTIFIER ASSEMBLY****DESCRIPTION: A 50/100/200/400/600 VOLT, 5.0 AMP, 150 NANOSECOND THREE PHASE BRIDGE RECTIFIER ASSEMBLY.****MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

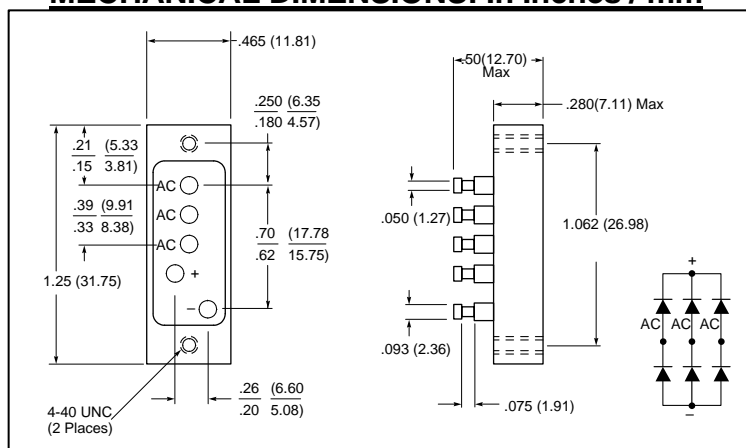
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV) S6A305FR S6A310FR S6A320FR S6A340FR S6A360FR	-	-	-	50 100 200 400 600	Vdc
Average DC Output Current ( $T_C$ = Case Temp) ( $I_o$ )	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	5.0 3.5 2.5	Amps
Average DC Output Current Ambient Temp. (no heat sink) ( $I_o$ )	$T_A = 25^\circ\text{C}$ $T_A = 55^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	2.0 1.5 1.0	Amps
Peak Single Cycle Surge Current ( $I_{FSM}$ )	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	25	Amps(pk)
Peak Recurring Surge Current ( $I_{FRM}$ )	$T_A = 25^\circ\text{C}$	-	-	9.0	Amps
Operating and Storage Temp. ( $T_{op}$ & $T_{stg}$ )	-	-55	-	+150	$^\circ\text{C}$
Maximum Forward Voltage ( $V_f$ )	$I_f = 3.0\text{A}$ (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.7	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	2.0 50	$\mu\text{Amps}$
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 ( $\theta_{JL}$ )	-	-	-	4.0	$^\circ\text{C/W}$

**SENSITRON**

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**MECHANICAL DIMENSIONS: In Inches / mm**



**FIG. 409**

Note: Case finish - Black Anodized

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