

TECHNICAL DATA DATA SHEET 2010, REV. B

THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

DESCRIPTION: A 50/100/200/400/600 VOLT, 5.0 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) S6A305FR	-	-	-	F0	Vdc
S6A310FR S6A320FR S6A340FR				50 100 200 400	
S6A360FR				600	_
Average DC Output Current (T_C = Case Temp) (I_o)	$T_C = 55$ °C	-	-	5.0	Amps
	$T_{\rm C} = 100{}^{\rm o}{\rm C}$			3.5	
	T _C = 125 °C			2.5	
Average DC Output Current Ambient Temp. (no heat sink) (I _o)	T _A = 25 °C	-	-	2.0	Amps
	$T_A = 55^{\circ}c$			1.5	
	$T_A = 100^{\circ} c$			1.0	
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})	$T_A = 25$ °C	-	-	9.0	Amps
Operating and Storage Temp. (T _{op} & T _{stg})	-	-55	-	+150	°C
Maximum Forward Voltage (V _f)	I _f = 3.0A (300 μsec pulse, duty cycle < 2%)	-	-	1.7	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T _A = 25° C	-	-	2.0	μAmps
	T _A = 100° C			50	
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr}$ = 0.25A	-	-	180	nsec
Thermal Resistance (θ _{JL})	-	-	-	4.0	°C/W

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MECHANICAL DIMENSIONS: In Inches / mm

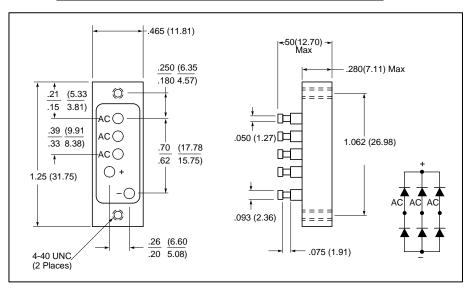


FIG. 409

Note: Case finish - Black Anodized

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