

TECHNICAL DATA
DATA SHEET 1177, REV. -

**THREE PHASE FULL WAVE
BRIDGE RECTIFIER ASSEMBLY**

DESCRIPTION: A 50/100/150 VOLT, 15 AMP, 30 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) S10A305HE S10A310HE S10A315HE	-	-	-	50 100 150	Vdc
Average DC Output Current (I_o)	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	15 9.0 5.0	Amps
Average DC Output Current Ambient Temp. (no heat sink) (I_o)	$T_A = 25^\circ\text{C}$ $T_A = 55^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	4.75 3.75 2.25	Amps
Peak Single Cycle Surge Current (I_{FSM})	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	150	Amps(pk)
Peak Recurring Surge Current (I_{FRM})	$T_A = 25^\circ\text{C}$	-	-	65	Amps
Operating and Storage Temp. (T_{op} & T_{stg})	-	-55	-	+150	$^\circ\text{C}$
Maximum Forward Voltage (V_f)	$I_f = 6.0\text{A}$ (300 μsec pulse, duty cycle < 2%)	-	-	1.0	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	10 100	μAmps
Reverse Recovery Time (t_{rr})	$I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$	-	-	30	nsec
Thermal Resistance (θ_{JL})	-	-	-	3.0	$^\circ\text{C/W}$

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MECHANICAL DIMENSIONS: In Inches / mm

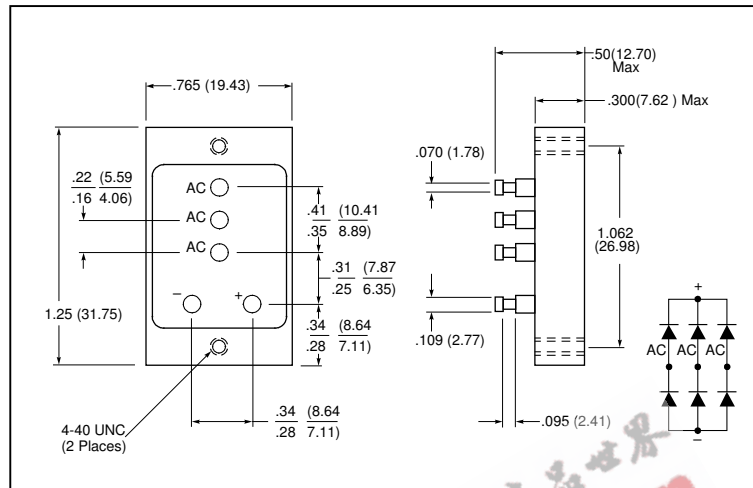


FIG. 410

Notes:
 Case finish - Black Anodized
 Potted dimension - uncontrolled

SENSITRON

SEMICONDUCTOR

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