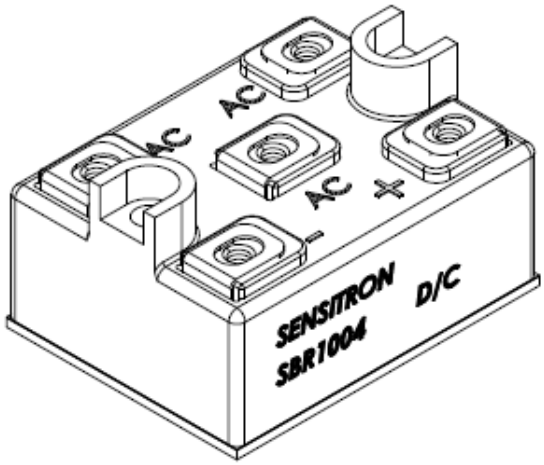
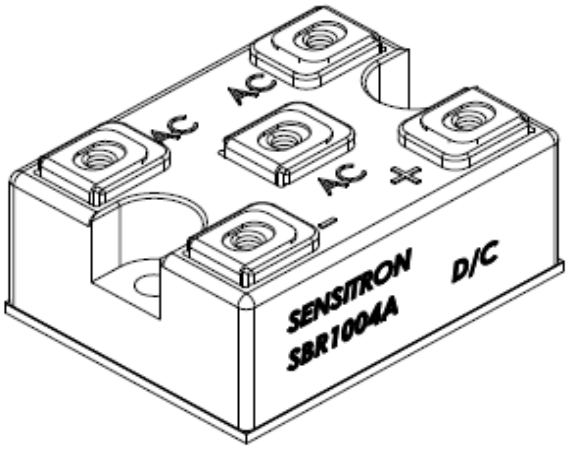
SENSITRON SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 5380, REV. B.1

THREE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY





DESCRIPTION: 1000 V, 100 A THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at T_A = 25°C unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Non-Repetitive Peak Inverse Voltage (PIV)	T_C = 25 °C	-	-	1200	Vdc
Repetitive Peak Inverse Voltage (PIV)	T_C = -55 °C to 150°C	-	-	1000	Vdc
Average DC Output Current (T_C = Case Temp) (I_o)	T_C = 55 °C T_C = 100 °C	-	-	190 100	A
Peak Single Cycle Surge Current (I_{FSM})	t_p = 8.3 ms Single Sine wave T_C = 25 °C	1500	-	-	A
Single Cycle Energy Rating	t_p = 8.3 ms Single Sine wave T_C = 25 °C	-	9300	-	A^2s
Operating and Storage Temp (T_{op} & T_{stg})	-	-55	-	+150	°C
Junction Temp (T_J)	-	-55	-	+190	°C
Maximum Forward Voltage (V_f) (300 µsec pulse, duty cycle < 2%)	T_C = 25 °C, I_f = 100A T_C = 125 °C, I_f = 100A	-	-	1.20 1.10	V
Maximum Instantaneous Reverse Current At 1000V	T_C = 25° C T_C = 100° C	-	-	20 4000	µA

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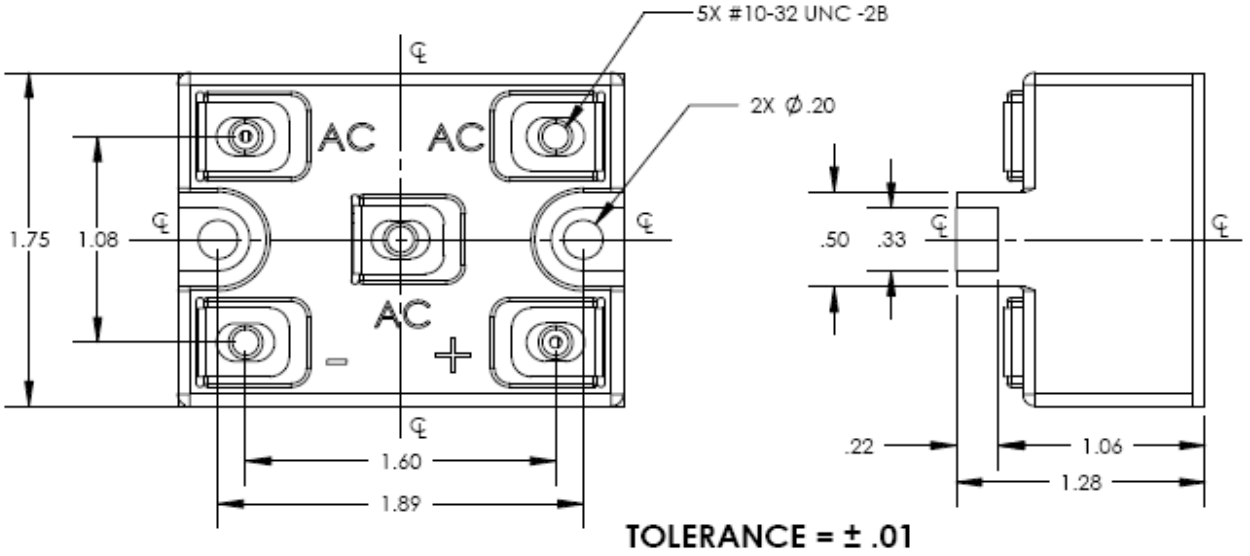
Mechanical / Thermal Characteristics:

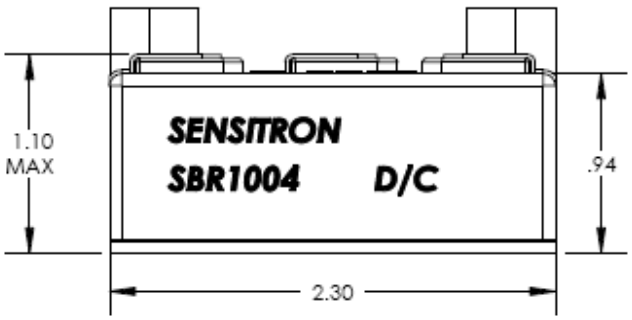
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Isolation Voltage	All Terminals - Base Plate	-	-	1500	VRMS
Mounting Torque	-	-	-	30	In-lb.
Weight	-	-	-	155	gms
Thermal Resistance (θ_{JL})	Per Diode	-	-	0.85	°C/W

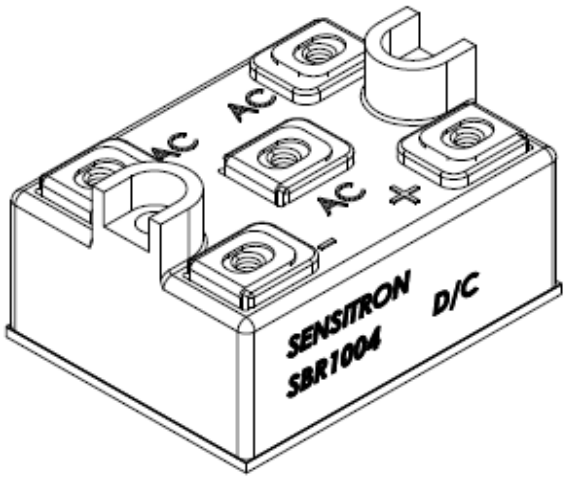
Note: Add a suffix **S** to the part number for S-100 Screening.

MECHANICAL DIMENSIONS: In Inches



TOLERANCE = ± .01





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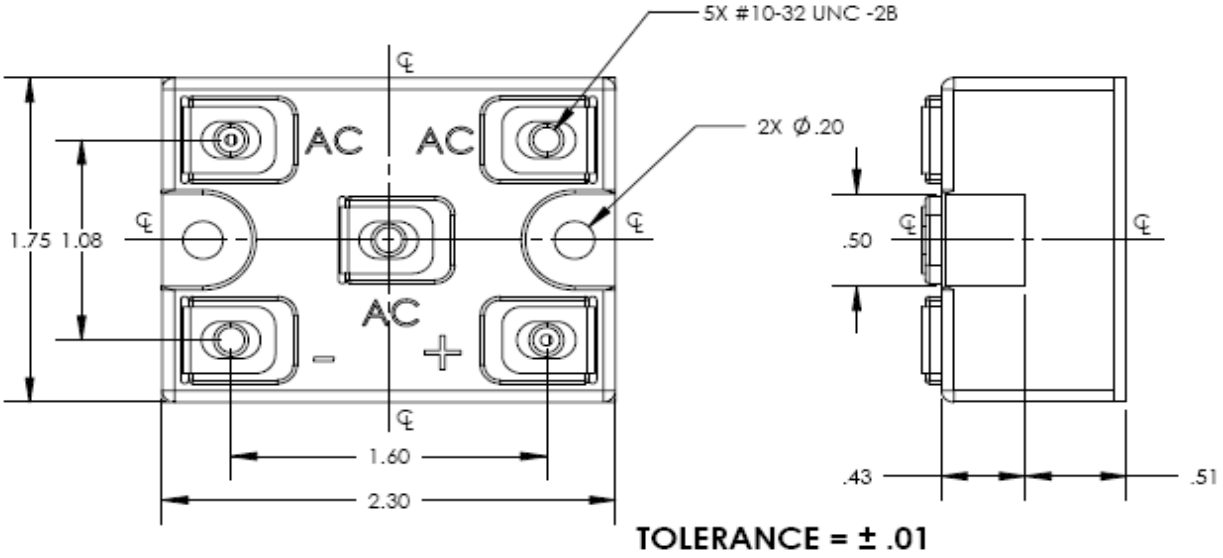

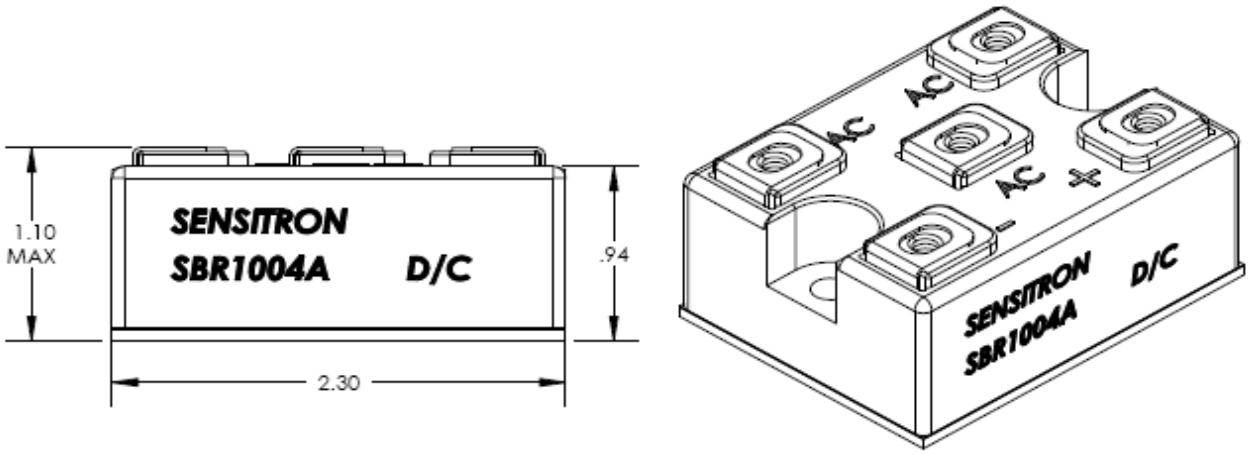

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