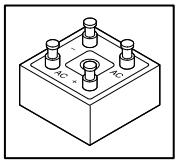
SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 4306, REV. B



SINGLE PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLY

DESCRIPTION: A 10A, 5000 NANOSECOND SINGLE PHASE BRIDGE RECTIFIER ASSEMBLY. AVAILABLE IN 200V, 400V, 600V, 800V AND 1000V.

FEATURE: A Dielectric Withstanding Voltage test will be performed with the metal case of the assembly connected to ground and all four terminals connected to the high potential side of a DC power supply or scope display test. Voltage applied shall be 2800 Vdc and held for 10 seconds.

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^oC$ unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	S469-01 S469-02 S469-03 S469-04 S469-05	-	-	200 400 600 800 1000	Vdc
Average DC Output Current (T_C = Case Temp) (I_o)	$T_C = 55^oC$ $T_C = 100^oC$ $T_C = 125^oC$	-	-	10 6.0 3.0	Amps
Peak Single Cycle Surge Current (I_{FSM}) Rated at $T_A = 55^oC$	t_p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Maximum Forward Voltage Per Leg (V_f)	I_f = 15.7 Adc (300 μsec pulse, duty cycle < 2%)	-	-	1.35	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25°$ C $T_A = 100°$ C	-	-	2.0 125	μAmps
Reverse Recovery Time (t_{rr})	I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A	-	-	5000	nsec
Thermal response	$R_{\theta JC}$	-	-	1.5	$^oC/W$
Maximum operating and storage temperature range	$T_{J, stg}$	-55		+150	°C

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MECHANICAL DIMENSIONS: In Inches / mm

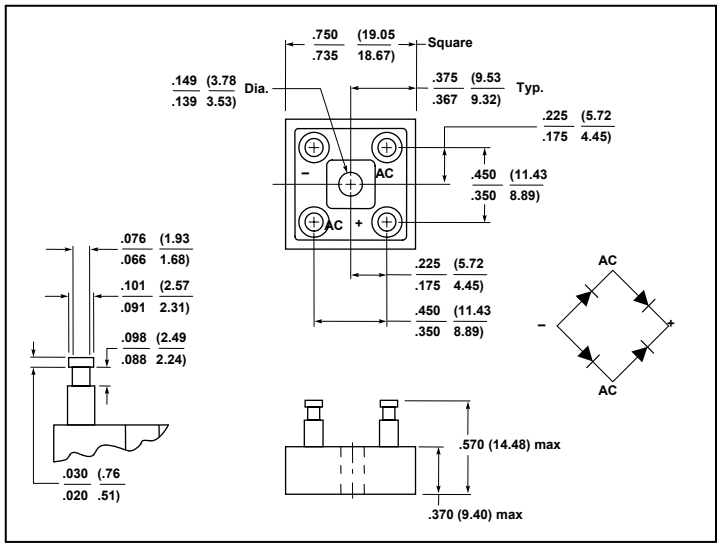

Fig. 469

Note: Case finish - Black Anodized