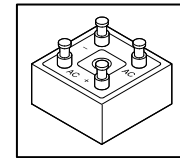


# **SENSITRON** **SEMICONDUCTOR**

S469-01  
S469-02  
S469-03  
S469-04  
S469-05

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.**

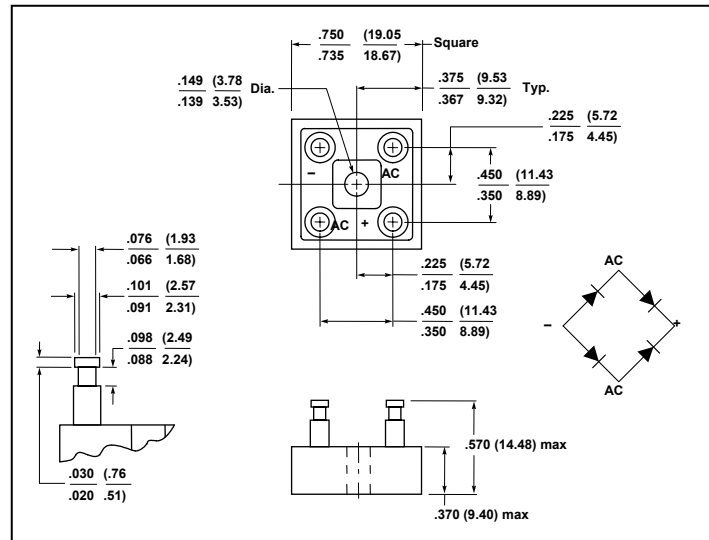
**FEATURE:** A Dielectric Withstanding Voltage test will be performed with the metal case of the assembly connected to ground and all four terminals connected to the high potential side of a DC power supply or scope display test. Voltage applied shall be 2800 Vdc and held for 10 seconds.

**MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

<b>RATING</b>	<b>CONDITIONS</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>UNIT</b>
Peak Inverse Voltage (PIV)	S469-01 S469-02 S469-03 S469-04 S469-05	-	-	200 400 600 800 1000	Vdc
Average DC Output Current ( $I_o$ ) ( $I_o$ )	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	10 6.0 3.0	Amps
Peak Single Cycle Surge Current ( $I_{FSM}$ ) Rated at $T_A = 55^\circ\text{C}$	$t_p = 8.3$ 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 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	1.35	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	2.0 125	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$	-	-	5000	nsec
Thermal response	$R_{\theta JC}$	-	-	1.5	$^\circ\text{C/W}$
Maximum operating and storage temperature range	$T_{J, stg}$	-55		+150	$^\circ\text{C}$

**SENSITRON**  
**TECHNICAL DATA**  
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**MECHANICAL DIMENSIONS: In Inches / mm**



**Fig. 469**

**Note:** Case finish - Black Anodized

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