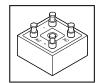
TECHNICAL DATA DATASHEET 6008, REV. -



## SINGLE PHASE FAST FULL WAVE BRIDGE RECTIFIER ASSEMBLY

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

**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<sub>A</sub> = 25°C unless otherwise specified.

MAX. RATINGS / ELECTRICA	7 m rating	All ratings are at $T_A = 25$ C unless otherwise specified.			
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	S469-01FR	-	-	200	Vdc
	S469-02FR			400	
	S469-03FR			600	
Average DC Output Current (T <sub>C</sub> = Case Temp) (I <sub>o</sub> )	$T_C = 55$ °C	-	-	9.0	Amps
	$T_{\rm C} = 100{}^{\rm o}{\rm C}$			5.0	
	T <sub>C</sub> = 125 °C			2.5	
Peak Single Cycle Surge Current ( $I_{FSM}$ ) Rated at $T_A = 55^{\circ}C$	t <sub>p</sub> = 8.3 ms Single Half Cycle Sine Wave	-	-	80	Amps(pk)
Maximum Forward Voltage Per Leg (V <sub>f</sub> )	I <sub>f</sub> = 9 A dc (300 µsec pulse, duty cycle < 2%)	-	-	1.5	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T <sub>A</sub> = 25° C	-	-	2	μAmps
	T <sub>A</sub> = 100° C			50	
Reverse Recovery Time (t <sub>rr</sub> )	$I_f = 0.5A, I_r = 1.0A,$ $I_{rr} = 0.25A$	-	-	500	nsec
Thermal response	$R_{ heta JC}$	-	-	2.0	°C/W
Maximum operating and storage temperature range	T <sub>J, stg</sub>	-55		+150	°C

## **SENSITRON**

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## **MECHANICAL DIMENSIONS: In Inches / mm**

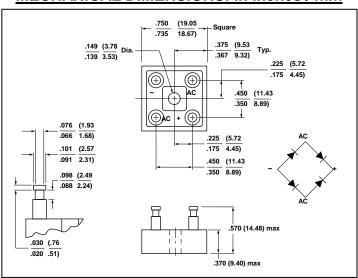


Fig. 469

Note: Case finish - Black Anodized

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