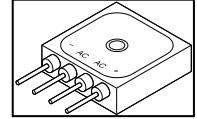


TECHNICAL DATA  
DATA SHEET 1128, REV. -

**SINGLE PHASE FULL WAVE  
BRIDGE RECTIFIER ASSEMBLY**



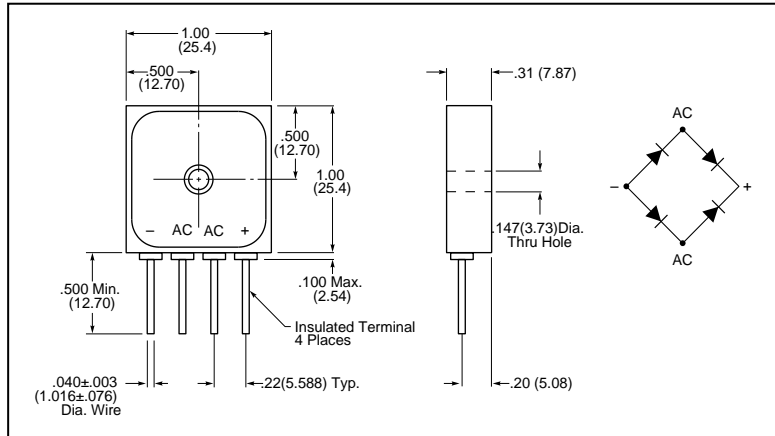
**DESCRIPTION: A 600 VOLT, 18 AMP, 30 NANOSECOND SINGLE PHASE BRIDGE RECTIFIER ASSEMBLY.**

**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)	-	-	-	600	Vdc
Average DC Output Current ( $I_o$ )	$T_C = 55^\circ\text{C}$ $T_C = 100^\circ\text{C}$ $T_C = 125^\circ\text{C}$	-	-	18 11 5.5	Amps
Peak Single Cycle Surge Current ( $I_{FSM}$ )	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	120	Amps(pk)
Maximum Forward Voltage Per Leg ( $V_f$ )	$I_f = 6$ Adc (300 $\mu\text{sec}$ pulse, duty cycle < 2%)	-	-	2.4	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	-	-	10 200	$\mu\text{Amps}$
Reverse Recovery Time ( $t_{rr}$ )	$I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$  (Measured on discrete rectifiers prior to assembly.)	-	-	30	nsec
Maximum Thermal Resistance ( $R_{\theta JC}$ )	Measured on discrete diodes prior to assembly.	-	-	1.5	$^\circ\text{C/W}$
Operating and Storage Temperature Range	-	-55	-	+150	$^\circ\text{C}$

**SENSITRON**  
**TECHNICAL DATA**  
**DATA SHEET 1128, REV. -**

**MECHANICAL DIMENSIONS: In Inches / mm**



**Fig. 439**

**Note:** Case finish - Black Anodized

**DISCLAIMER:**

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.

4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.

5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.

6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.

7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.