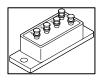
F483GH F483HH F483IH

TECHNICAL DATA DATA SHEET 5033, REV. -

THREE PHASE FULL WAVE RECTIFIER ASSEMBLY WITH FUSES



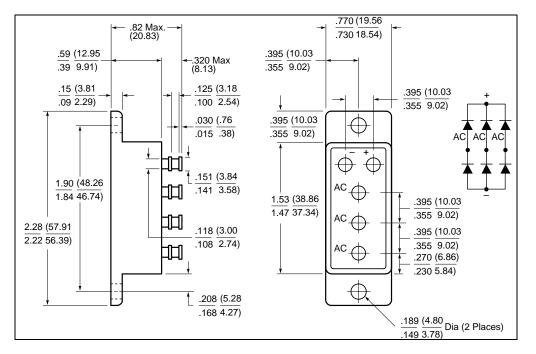
DESCRIPTION: 600, 800, or 1000 VOLT, 40 AMP, 5000 NS 3-PHASE FULL WAVE RECTIFIER ASSEMBLY WITH FUSES IN EACH DC LEG.

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 CHARACTRISTICS ALL RATINGS ARE AT T_C = 25 C UNLESS OTHERWISE SPECIFIED

RATING		SYMBOL	MIN	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)					Volts
F483GH		PIV		600	
F483HH				800	
F483IH				1000	
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) (I_f = 39A dc)		V _f		1.2	Volts
MAXIMUM DC OUTPUT CURRENT	$(T_{\rm C} = 55 {}^{\rm O}{\rm C})$	I _o		40	Amps
	$(T_{\rm C} = 100 \ {}^{\rm O}{\rm C})$			21	Amps
PEAK SINGLE CYCLE SURGE CURRENT t_p =8.3 ms Single Half Cycle Sine Wave		I _{FSM}		275	Amps
Fusing Current (I_{FUSE}) $T_A = 25 ^{\circ}C$			310	390	Amps
MAXIMUM REVERSE RECOVERY TIME		t _{rr}		5000	ns
$(I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)$					
MAXIMUM REVERSE CURRENT Ir @ PIV (PER LEG)	(T _c = 25 ^o C)	l _r		10	μA
	$T_{\rm C} = 100 \ {}^{\rm O}{\rm C}$)			200	μΑ
MAXIMUM THERMAL RESISTANCE (PER LEG)		$R_{ ext{ heta}JC}$.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		T _{J, stg}	-55	+ 150	°C

SENSITRON TECHNICAL DATA DATA SHEET 5033, -



MECHANICAL DIMENSIONS: In Inches / mm

*Case--black anodized. Potting surface—uncontrolled

<u>Fig. 424</u>

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 writ ten 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