

3 Phase 25A Rectifier Bridge

Qualified per MIL-PRF-19500/483

DESCRIPTION:

This high power three phase full wave bridge series is military qualified per MIL-PRF-19500/483 and is targeted for space, commercial and military aircraft, military vehicles, shipboard markets and all high reliability applications.

✓ FEATURES / BENEFITS

- ✓ Constructed with hermetic diodes
- ✓ All devices are 100% hot solder dipped
- ✓ JANTX/JANTXV available per MIL-PRF-19500/483

ELECTRICAL CHARACTERISTICS

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

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-01	-	-	200	Vdc
	-02			400	
	-03			600	
Average DC Output Current (I_o)	$T_C = 55^\circ\text{C}$	-	-	25	Amps
	$T_C = 100^\circ\text{C}$			18.5	
Peak Single Cycle Surge Current (I_{FSM})	$t_p = 8.3$ ms Single Half Cycle Sine Wave, Superimposed On Rated Load, $T_C = 55^\circ\text{C}$	-	-	150	Amps(pk)
Maximum Forward Voltage Per Leg (V_f)	$I_f = 39$ Adc ($t_p = 8.3$ ms max, duty cycle < 2%)	-	-	1.3	Volts
Maximum Instantaneous Reverse Current	DC method; $V_R =$ rated PIV	-	-	1.0	μAmps
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.	-	-	2.5	usec

SENSITRON
TECHNICAL DATA
DATA SHEET 4285, REV. C

MECHANICAL DIMENSIONS: In Inches / mm

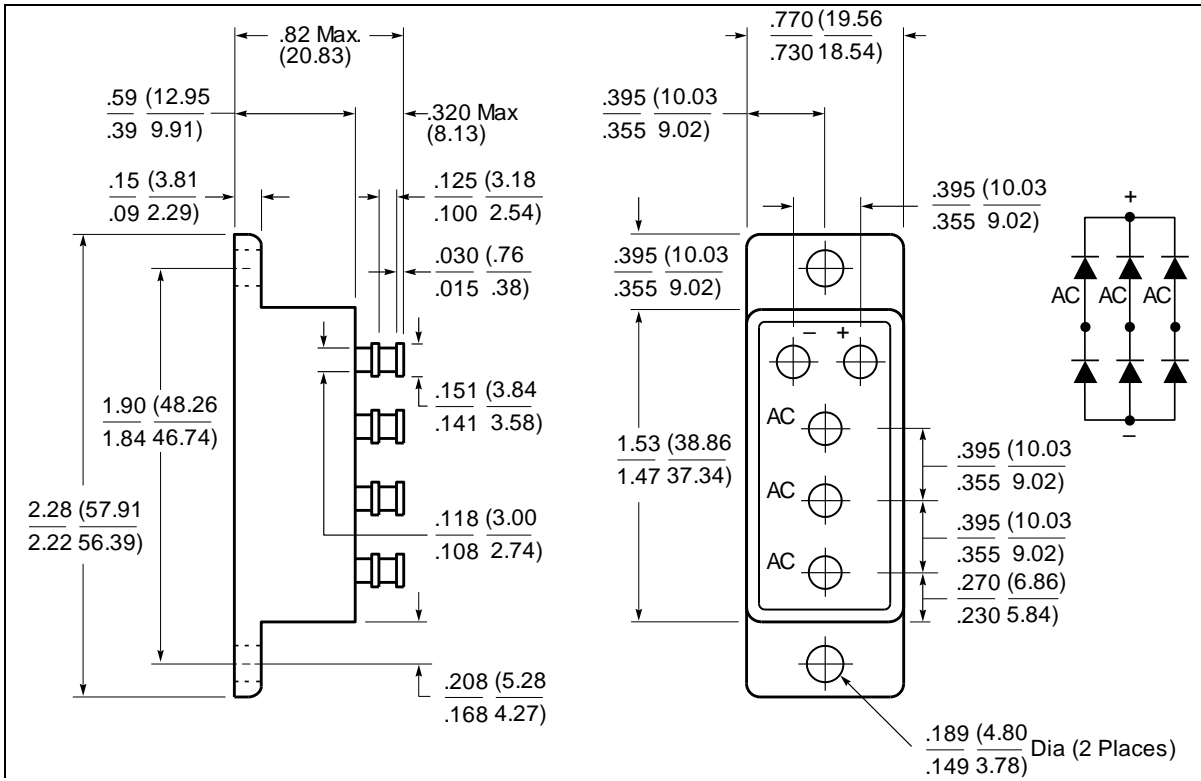


Fig. 424

Note: Case finish - Black Anodized

SENSITRON

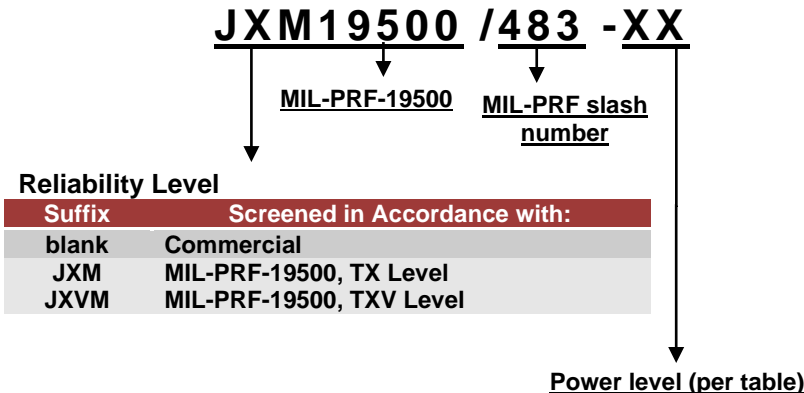
TECHNICAL DATA

DATA SHEET 4285, REV. C

PART ORDERING INFORMATION:

The following part numbers can be screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	Part Number <i>(example for M19500/483-01)</i>
JANTX	JXM19500/483-01
JANTXV	JXVM19500/483-01



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.