# RECTIFIER ASSEMBLIES

Single Phase Bridges, 10 Amp, Military Approved

JAN & JANTX 469-1 JAN & JANTX 469-2 JAN & JANTX 469-3

## **FEATURES**

- Qualified to MIL-S-19500/469
- Current Rating: to 10A
- PIV: from 200 to 600V
- Surge Ratings of 100A
- . Only Fused-in-Glass Diodes Used
- Controlled Avalanche Characteristics
- · Aluminum Heat Sink Case, Electrically Insulated

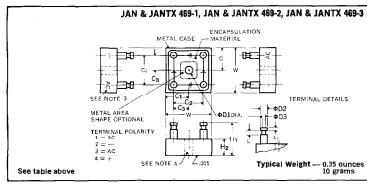
## DESCRIPTION

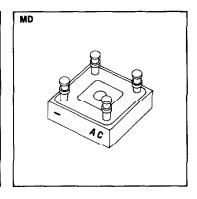
This series of military high-current single-phase bridge offer the utmost in reliability as required in military system designs. The TX series is assembled with diodes which have been subjected to 100% screening tests.

ABSOLUTE MAXIMUM RATINGS	
Peak Inverse Voltage	200 to 600V
Maximum Average D.C. Output Current	
$@ T_C = +55^{\circ}C$	10λ
@ $T_{\rm C} = +100^{\circ}$ C	6A
Non-Repetitive Sinusoidal Surge (8.3ms)	
@ $T_c = +55^{\circ}C$	100A
Operating and Storage Temperature Range, T <sub>C</sub>	-65°C to +150°C
Thermal Resistance Junction to Ambient	
Junction to Case	5°C/W

		Dimensio	ons		
Ltr	INCHES		MILLIMETERS		
	MIN.	MAX.	MIN.	MAX.	
C <sub>i</sub>	.367	.375	9.32	9.53	
C2	.350	.450	8.89	11.43	
C3	.175	.225	4.45	5.72	
φDι	.139	.149	3.53	3.78	
φD2	.091	.101	2.31	2.57	
φD;	.066	.076	1.68	1.93	
Hi		.570		14.46	
H <sub>2</sub>		.370	l	9.40	
Li	.088	.098	2.24	2.49	
L <sub>2</sub>	.020	.030	.51	.76	
w	.735	./50	18.6/	19.05	

### **MECHANICAL SPECIFICATIONS**





### NOTES:

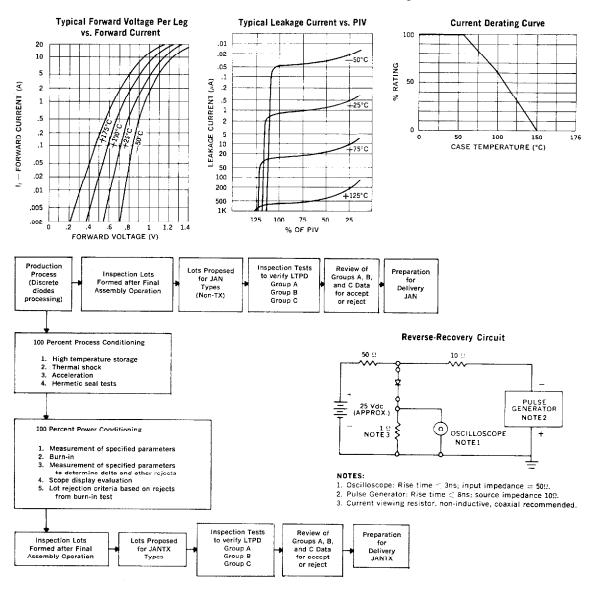
- 1. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
- 2. Terminals shall be tinned.
- 3. Polarity shall be marked on the bridge body adjacent to terminals. Terminal numbers are for reference and do not have to be marked on the bridge; however, terminal (1) shall be indicated by a mechanical index such as a line, flattened corner, etc., visible from the top (terminal surface) of the device.
- minal surface) of the device. 4. Point at which  $T_{\rm C}$  is read shall be in metal part of a case as shown on drawing.



## Electrical Specification (at 25°C unless noted)

Tyne	Rev Break PIV Volt Per Per	Reverse Breakdown Voltage Per Leg	reakdown Maximum Voltage Forward Per Leg Voltage Drop	Maximum Reverse Recovery	Maximum Leakage Current Per Leg @ PIV	
	Log	@ 50,,∆	Por Log*	Timet	T <sub>C</sub> = 25°C	T <sub>C</sub> = 100°C
	Volts	Volts		μS	μA	$\mu$ A
JAN & JANTX 469-1	200	240				
JAN & JANTX 469-2	400	460	1.35V @ 15.7A(pk)	2	2	125
JAN & JANTX 469-3	600	660			_	

- \*Maximum forward voltage drop is measured at a pulse width of 8.3ms.
- †Measured in a reverse-recovery circuit switching from 0.5A forward to 1.0A reverse current recovering to 0.25A.



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