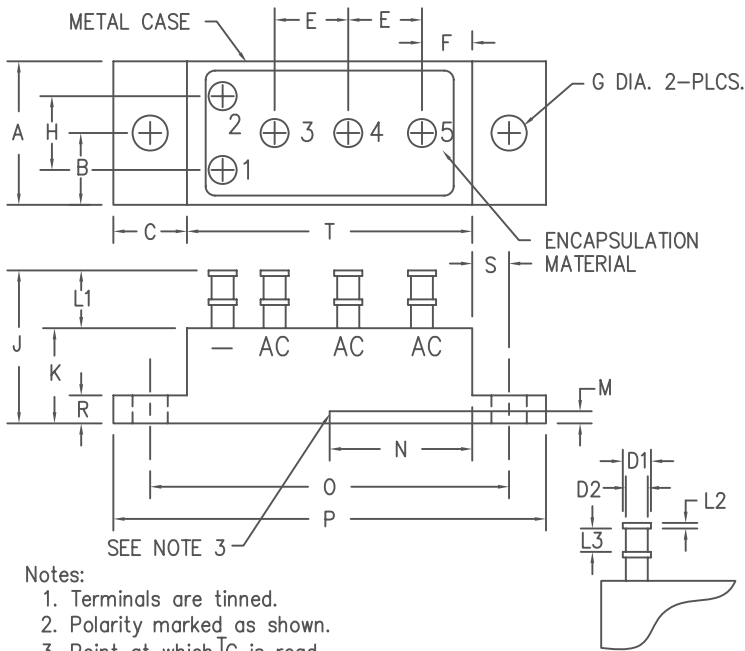


# 25 Amp Three Phase Bridge Rectifiers JANTX 483-1 to 483-3



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.730	.770	18.54	19.56	
B	.355	.395	9.02	10.03	
C	.355	.395	9.02	10.03	
D1	.141	.151	3.58	3.84	
D2	.108	.118	2.74	3.00	
E	.355	.395	9.02	10.03	
F	.230	.270	5.84	6.86	
G	.149	.189	3.78	4.80	
H	.355	.395	9.02	10.03	
J	---	.820	---	20.83	
K	.390	.510	9.91	12.95	
L1	.240	.320	6.10	8.13	
L2	.015	.030	.38	.76	
L3	.100	.125	2.54	3.18	
M	.040	.060	1.02	1.52	
N	.720	.780	18.29	19.81	
O	1.84	1.90	46.74	48.26	
P	2.22	2.28	56.39	57.91	
R	.090	.150	2.29	3.81	
S	.168	.208	4.27	5.28	
T	1.47	1.53	37.34	38.86	

**Notes:**

1. Terminals are tinned.
2. Polarity marked as shown.
3. Point at which  $T_C$  is read.

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
JANTX483-1		200V	240V
JANTX483-2		400V	460V
JANTX483-3		600V	660V

- Qualified to MIL-S-19500/483
- Fused-in-glass diodes used
- Controlled Avalanche Characteristics
- High Surge Rating
- Electrically isolated Aluminum case

Electrical Characteristics		
Average D.C. output current	$I_{OAV}$ 25 Amps	$T_C = 55^\circ C$
Average D.C. output current	$I_{OAV}$ 18.5 Amps	$T_C = 100^\circ C$
Maximum surge current	$I_{FSM}$ 150 Amps	8.3ms, half sine, $T_J = 55^\circ C$
Max peak forward voltage per leg	$V_{FM}$ 1.3 Volts	$I_{FM} = 39A; T_J = 25^\circ C^*$
Max peak reverse current per leg	$I_{RM}$ 2 $\mu A$	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current per leg	$I_{RM}$ 200 $\mu A$	$V_{RRM}, T_J = 100^\circ C^*$
Max. recovery time per leg	$t_{rr}$ 2.5 $\mu S$	0.5A, 1.0A, 0.25A
Isolation voltage	$V_{ISO}$ 2800 Volts	10 $\mu A$ DC max for 10sec. $25^\circ C$
*Pulse test: Pulse width 300 $\mu sec$ , Duty cycle 2%		

Thermal and Mechanical Characteristics		
Storage temperature range	$T_{STG}$	$-65^\circ C$ to $150^\circ C$
Operating temperature range	$T_J$	$-65^\circ C$ to $150^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$2.5^\circ C/W$ junction to case
Maximum thermal resistance per package	$R_{\theta JA}$	$20^\circ C/W$ junction to ambient
Mounting Torque		15 inch pounds max. (6-32 screw)
Weight		1.0 ounces (30 grams) typical



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05-31-07 Rev. 2

# JANTX483-1 to JANTX483-3

Figure 1  
Typical Forward Characteristics - Per Leg

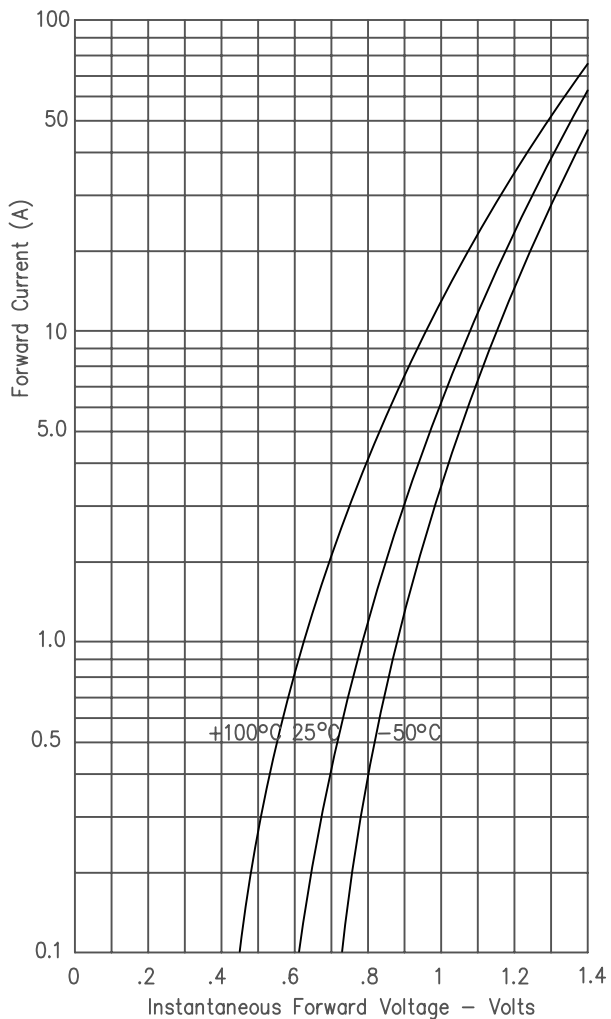


Figure 3  
Current Derating

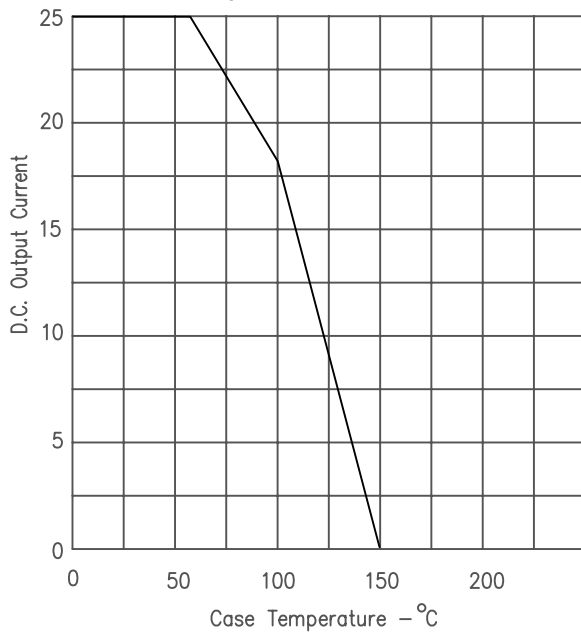


Figure 2  
Typical Reverse Leakage Current - Per Leg

