

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
 SPRINGFIELD, NEW JERSEY 07081
 U.S.A.

TELEPHONE: (973) 376-2922
 (212) 227-6005
 FAX: (973) 376-8960

RECTIFIER ASSEMBLIES

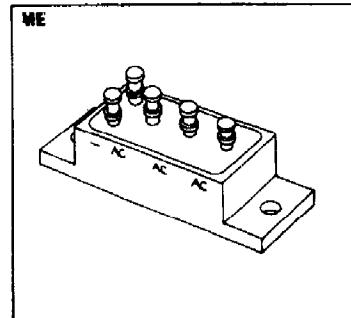
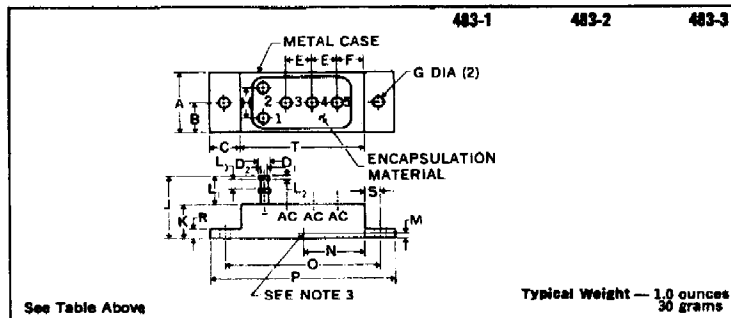
Three Phase Bridges, 25 Amp,

483-1
 483-2
 483-3

FEATURES

- Current Rating: 25A
- PIV: from 200 to 600V
- Surge Ratings: 150A
- Only Fused-in-Glass Diodes Used
- Controlled Avalanche Characteristics
- Aluminum Heat Sink Case, Electrically Insulated

MECHANICAL SPECIFICATIONS



NOTES:

1. Terminals shall be tinned.
2. Polarity shall be marked as shown on drawing.
3. Point at which T_c is read (shall be in metal part of case).

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage 200 to 600V

Maximum Average D.C. Output Current
 @ $T_c = 55^\circ\text{C}$ 25A
 @ $T_c = 100^\circ\text{C}$ 18.5A

Non-Repetitive Sinusoidal Surge (8.3ms)
 @ $T_c = 55^\circ\text{C}$ 150A

Operating and Storage Temperature Range, T_c -65°C to $+150^\circ\text{C}$

Thermal Resistance Junction to Ambient $20^\circ\text{C}/\text{W}$
 Junction to Case $2.5^\circ\text{C}/\text{W}$

LTR	DIMENSIONS			
	INCH		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.730	.770	18.54	19.56
B	.355	.395	9.02	10.03
C	.355	.395	9.02	10.03
D ₁	.141	.151	3.58	3.84
D ₂	.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		.82		20.83
K	.39	.51	9.91	12.95
L ₁	.240	.320	6.10	8.13
L ₂	.015	.030	.38	.76
L ₃	.100	.125	2.54	3.18
M	.040	.060	1.02	1.52
N	.72	.78	18.29	19.81
O	1.84	1.90	46.74	48.26
P	2.22	2.28	56.39	57.91
R	.09	.15	2.29	3.81
S	.168	.208	4.27	5.28
T	1.47	1.53	37.34	38.86



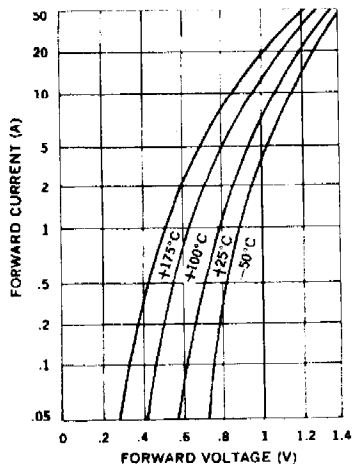
Quality Semi-Conductors

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

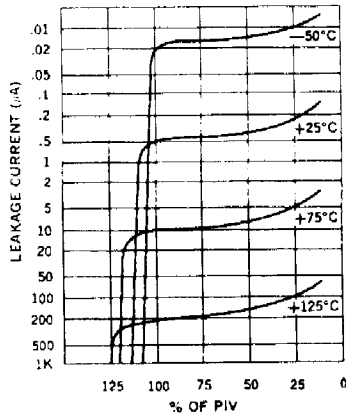
Type	PIV Per Leg Volts	Breakdown Voltage Per Leg @ 50 μ A Volts	Maximum Forward Voltage Drop Per Leg*	Maximum Leakage Current Per Leg @ PIV	
				T _C = 25°C μ A	T _C = 100°C μ A
483-1	200	240	1.3V @ 39A (pk)	2	200
483-2	400	480			
483-3	600	660			

* Maximum forward voltage drop is measured at a pulse width of 8.3ms, duty cycle \leq 2%.

Typical Forward Voltage Per Leg vs. Forward Current



Typical Leakage Current vs. PIV



Current Derating Curve

