



180 Lafayette Road
 North Hampton, NH 03862-2448
 PH: 603-964-3165
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 WWW.PDEELECTRONICS.COM

Rectifier Assemblies

Single Phase Bridges, 7.5 Amp
 Standard and Fast Recovery
 697, 698 Series

FEATURES

- Miniature High Current Assemblies
- Continuous Ratings: to 7.5A
- Surge Ratings: to 80A
- PIV's: from 100 to 600V
- Recovery Times: to 500 ns
- Only Glass Passivated Diodes Used

DESCRIPTION

These miniature molded high-current single-phase power bridges are designed for universal application in power supplies. One basic bridge fills current requirements up to 7.5A, with PIV's from 100 to 600 volts and recovery times of standard, and 500 ns max.

ABSOLUTE MAXIMUM RATINGS

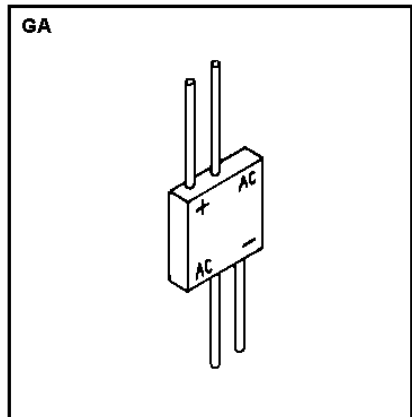
Peak Inverse Voltage.....100 to 600V
 Maximum Average D.C. Output Current.....See Electrical Specifications
 Non-Repetitive Sinusoidal Surge (8.3ms).....See Electrical Specifications
 Operating and Storage Temperature Range.....-65°C to +150°C
 Thermal Resistance Junction to Ambient.....32°C/W
 Junction to Case.....10°C/W

MECHANICAL SPECIFICATIONS

697, 698 SERIES

	Ins.	mm.
A	0.50±01	12.70±25
B	.032 DIA.	0.81 DIA.
C	1.0 MIN.	25.4 MIN.
D	.250 MAX.	6.35 MAX.
E	.150 TYP.	3.81 TYP.
F	0.50±01	12.70±25

Typical Weight-0.14 ounces
 4.0 grams



MARKING (OPTIONAL)

Alternate Current Input	A.C.	Yellow
Cathode- Positive Output	+	Red
Anode- Negative	-	Grey



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Electrical Specifications (at 25°C unless noted)					Maximum Ratings				
Type	PIV Per Leg	Maximum Forward Drop Per Leg	Leakage Current Per Leg @ PIV		Maximum Reverse Recovery Time*	Maximum Average D.C. Output Current		Non-Repetitive Sinusoidal Surge (8.3mS)	
			T _A =25°C	T _A =100°C		T _A =25°C	T _C =55°C		
	Volts		µA	µA	nS	Amps	Amps	Amps	
Standard Recovery	697-1 697-2 697-3 697-4 697-5 697-6	100 200 300 400 500 600	1.0V @ 2 A	5	200	-	2.5	7.5	80
Fast Recovery	698-1 698-2 698-3 698-4 698-5 698-6	100 200 300 400 500 600	1.1V @ 2A	5	200	500	2.25	7.0	70

*measured in a reverse recovery circuit switching from 1A forward to 1A reverse current recovering to .5A.