



## **FULL-WAVE MERCURY-VAPOR RECTIFIER**

Filament	Coated	
Voltage	2.5	a-c volts
Current	3.0	amp.
Maximum Overall Length		4-11/16"
Maximum Seated Height		4-1/16"
Maximum Diameter		1-13/16"
Bulb	2-3	ST-14
Base	7117	Medium 4-Pin
Pin 1 - Filament	( , , •)	Pin 3 – Plate #1
Pin 2-Plate #2	₩ <b>₩</b>	Pin 4 - Filament
Mounting Position	BOTTOM VIEW (4C)	Vertical, base down

## FULL-WAVE RECTIFIER

Peak Inverse Voltage Peak Plate Current per Plate Condenser Mercury Temperature Range	1550 max. volts 600 max. ma. 24 <sup>0</sup> - 60°C
With Condenser-Input Filter:  A-C Plate Voltage per Plate (RMS)  Total Effective Plate-Supply Imped-	450 max. volts
ance per Plate	50 min. ohms
D-C Output Current	115 max. ma.
With Choke-Input Filter:	_
A-C Plate Voltage per Plate (RMS)	550 max. volts
Input-Choke Inductance	6 min. henries
D-C Output Current	115 max. ma.
Tube Voltage Drop	15 approx.volts

## HALF-WAVE RECTIFIER

As a half-wave rectifier, the 82 is operated with plates connected in parallel. Two 82's so connected in a full-wave circuit can supply twice the output current of a single tube. Both plates within the same tube should be connected to the same terminal of the plate transformer. To equalize the current distribution between plates, a resistor of not less than 100 ohms should be connected in series with each plate.

A When a filter-input condenser larger than #0 µf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.