

5L

## FULL-WAVE VACUUM RECTIFIER

# 5V4GA

Glass octal type used in full-wave power supplies having high dc requirements. Outlines section, 19B; requires octal socket. The heater is designed to operate from the ac line through a step-down transformer. The voltage at the heater terminals should be 5 volts under

operating conditions at an average line voltage of 117 volts. It is especially important that these tubes, like other power-handling tubes, be adequately ventilated. Heater: volts (ac/dc) 5; amperes, 2.

### Full-Wave Rectifier

#### MAXIMUM RATINGS (Design-Center Values)

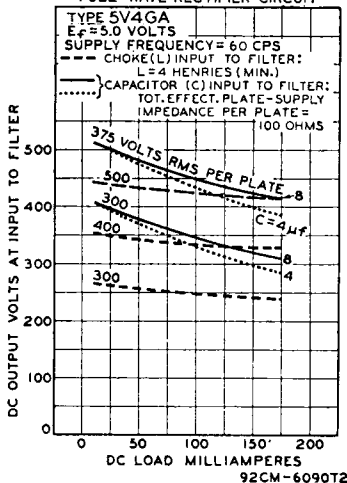
Peak Inverse Plate Voltage .....	1400	volts
AC Plate-Supply Voltage (Per Plate, rms):		
With capacitor-input filter .....	375	volts
With choke-input filter .....	500	volts
Peak Plate Current (Per Plate) .....	525	mA
Average Output Current .....	175	mA

#### TYPICAL OPERATION

	Filter Input	Capacitor	Choke	
AC Plate-to-Plate Supply Voltage (rms) .....	750	750	1000	volts
Filter-Input Capacitor* .....	10	10	—	$\mu$ F
Total Effective Plate-Supply Impedance per Plate ..	100	100	—	ohms
Filter-Input Choke .....	—	—	4	henries
DC Output Voltage at Input to Filter (Approx.):				
At output current of 175 mA .....	410	410	410	volts

\* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance may have to be increased to prevent exceeding the maximum rating for peak plate current.

OPERATION CHARACTERISTICS  
FULL-WAVE RECTIFIER CIRCUIT



Refer to chart at end of section.

5V6GT

Refer to chart at end of section.

5W4  
5W4GT

Refer to chart at end of section.

5X4G