

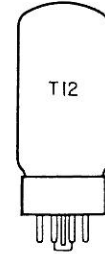
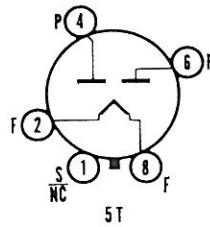
# Electro-Harmonix

**5U4GB EH**

**FULL-WAVE POWER RECTIFIER**

**Filamentary Twin Diode**

Construction .....Octal T-12  
 Base .....B5-121, B5-127 or B8-118  
 Basing<sup>(1)</sup>.....5T  
 Outline .....12-16  
 Maximum Diameter .....1.563 In.  
 Maximum Seated Height .....4.063 In.  
 Maximum Overall Height .....4.625 In.



**ELECTRICAL DATA**

**FILAMENT OPERATION**

Filament Voltage..... 5.0 Volts  
 Filament Current ..... 3000 Ma

**RATINGS (Design Center Rating System)**

**Rectifier Service<sup>(2)</sup>**

Peak Inverse Plate Voltage (Max.) ..... 1550 Volts  
 AC Plate Supply Voltage (Each Plate, RMS) (Max.) ..... 550 Volts  
 Steady State Peak Plate Current (Each Plate) (Max.) ..... 1.0 Amperes  
 Transient Peak Plate Current (Each Plate) (Max.) ..... 4.6 Amperes

**CHARACTERISTICS AND TYPICAL OPERATION**

**Full-Wave Rectifier—Capacitor Input Filter**

AC Plate Supply Voltage (Each Plate, RMS) <sup>(3)</sup> .....	300	450 Volts
Filter Input Capacitor.....	40	40 $\mu$ f
Effective Plate-Supply Resistance (Each Plate) .....	21	67 Ohms
DC Output Current.....	300	275 Ma
DC Output Voltage at Filter Input.....	290	460 Volts

**Full-Wave Rectifier—Choke Input Filter**

AC Plate Supply Voltage (Each Plate, RMS) <sup>(3)</sup> .....	550 Volts
Filter Input Choke .....	10 Henrys
DC Output Current.....	275 Ma
DC Output Voltage at Filter Input.....	420 Volts
Tube Voltage Drop for $I_b = 225$ Ma (Each Plate) .....	44 Volts
275 Ma (Each Plate) .....	50 Volts
300 Ma (Each Plate) .....	54 Volts

**NOTES:**

- (1) Horizontal operation is permitted if Pins 1 and 4 are in a vertical plane.
- (2) For use with sinusoidal supply voltages within the frequency range of 25 to 1000 Hertz.
- (3) AC plate voltage is measured without load.

**RATING CHART**

