

**RATINGS (Design Maximum Rating System)****Rectifier Service<sup>(2)</sup>**

|                                                           |            |
|-----------------------------------------------------------|------------|
| Peak Inverse Plate Voltage (Max.) .....                   | 1700 Volts |
| AC Plate Supply Voltage (Each Plate, RMS) (Max.) .....    | 600 Volts  |
| Steady State Peak Plate Current (Each Plate) (Max.) ..... | 1000 Ma    |
| Transient Peak Plate Current (Each Plate) (Max.) .....    | 5000 Ma    |

**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:**

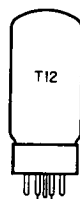
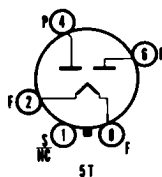
- (1) Horizontal operation is permitted if Pins 2 and 4 are in a vertical plane.
- (2) For use with sinusoidal supply voltages within the frequency range of 25 to 1000 Hertz.
- (3) AC plate voltage is measured without load.

**5U4GB**

Color Television Type

**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  |

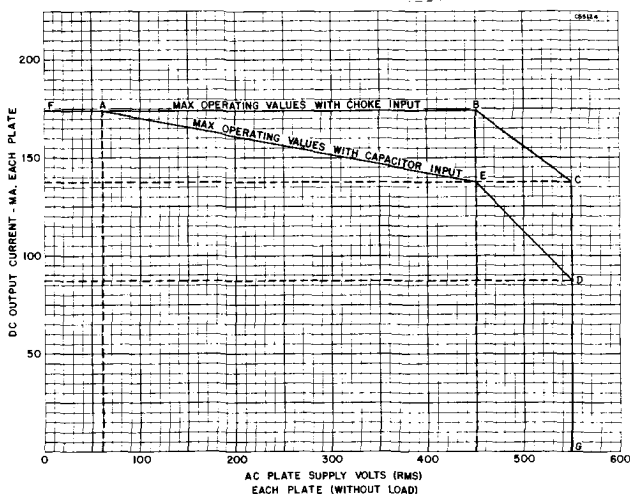
**Full-Wave Rectifier—Choke Input Filter**

|                                                                |           |
|----------------------------------------------------------------|-----------|
| 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.

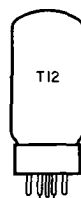
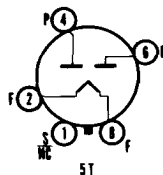
RATING CHART (5U4GB)



Color Television Type

**FULL-WAVE POWER RECTIFIER****5V3A****Filamentary Twin Diode**

Construction .....Octal T-12  
 Base .....B8-110, B5-121 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 Maximum Rating System)****Rectifier Service<sup>(2)</sup>**

Peak Inverse Plate Voltage (Max.) ..... 1550 Volts  
 AC Plate Supply Voltage (Each Plate RMS) (Max.) ..... 550 Volts  
 DC Output Current (Condenser Input) (Max.) ..... 415 Ma  
 Steady State Peak Plate Current (Each Plate) (Max.) ..... 1400 Ma  
 Transient Peak Plate Current (Each Plate) (Max.) ..... 6600 Ma  
 Bulb Temperature at Hottest Point ..... 240 °C

**CHARACTERISTICS AND TYPICAL OPERATION****Full-Wave Rectifier—Capacitor Input Filter**

AC Plate Supply Voltage (Each Plate RMS)<sup>(3)</sup> ..... 300 ..... 425 Volts  
 Filter Input Capacitor ..... 40 ..... 40  $\mu$ f  
 Effective Plate Supply Resistance (Each Plate) ..... 20 ..... 50 Ohms  
 DC Output Current ..... 380 ..... 350 Ma  
 DC Output Voltage at Filter Input ..... 300 ..... 440 Volts

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

AC Plate Supply Voltage (Each Plate RMS)<sup>(3)</sup> ..... 500 Volts  
 Filter Input Choke ..... 10 Henrys  
 DC Output Current ..... 350 Ma  
 DC Output Voltage at Filter Input ..... 390 Volts  
 Tube Voltage Drop for  $I_b = 350$  Ma (Each Plate) ..... 42 Volts

**NOTES:**

- (1) Horizontal operation is permitted if Pins 2 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.