

RATINGS (Design Maximum Rating System)

Rectifier Service⁽²⁾

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) ⁽³⁾	300	450 Volts
Filter Input Capacitor	40	40 μ 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) ⁽³⁾	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

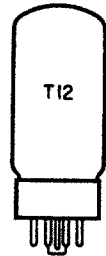
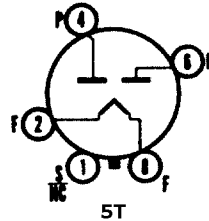
NOTES:

- (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.



Filamentary Twin Diode

Construction	Octal T-12
Base	B5-121, B5-127 or B8-118
Basing ⁽¹⁾	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⁽²⁾

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) ⁽³⁾	300	450 Volts
Filter Input Capacitor	40	40 μ 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

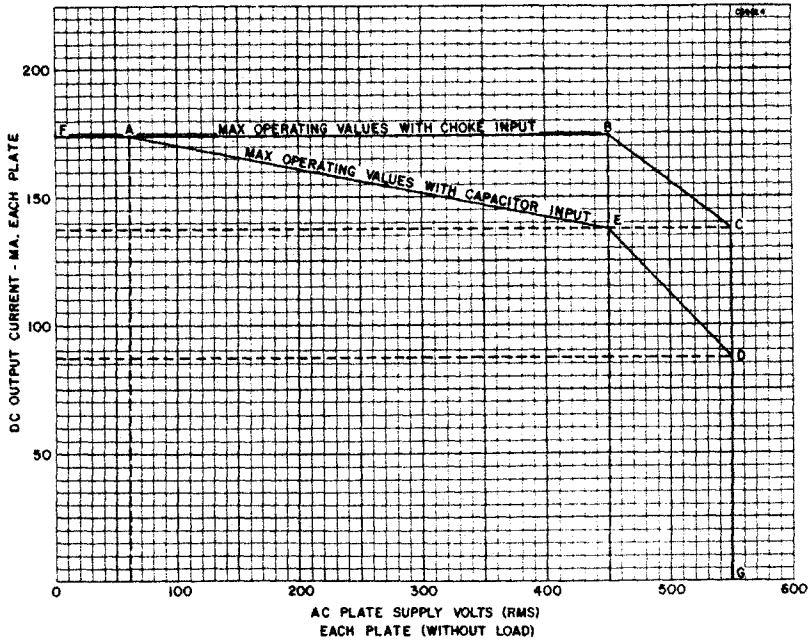
Full-Wave Rectifier—Choke Input Filter

AC Plate Supply Voltage (Each Plate, RMS) ⁽³⁾	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

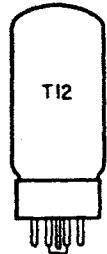
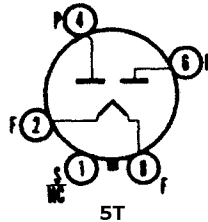


Color Television Type
FULL-WAVE POWER RECTIFIER

5V3A

Filamentary Twin Diode

ConstructionOctal T-12
 Base B5-110, B5-121 or B8-118
 Basing⁽¹⁾......5T
 Outline12-16
 Maximum Diameter1.563 In.
 Maximum Seated Height4.063 In.
 Maximum Overall Height4.625 In.



ELECTRICAL DATA

FILAMENT OPERATION

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

RATINGS (Design Maximum Rating System)

Rectifier Service⁽²⁾

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)⁽³⁾ 300 425 Volts
 Filter Input Capacitor..... 40 40 μf
 Effective Plate Supply Resistance (Each Plate) 20 50 Ohms
 DC Output Current..... 380 350 Ma
 DC Output Voltage at Filter Input 300 440 Volts

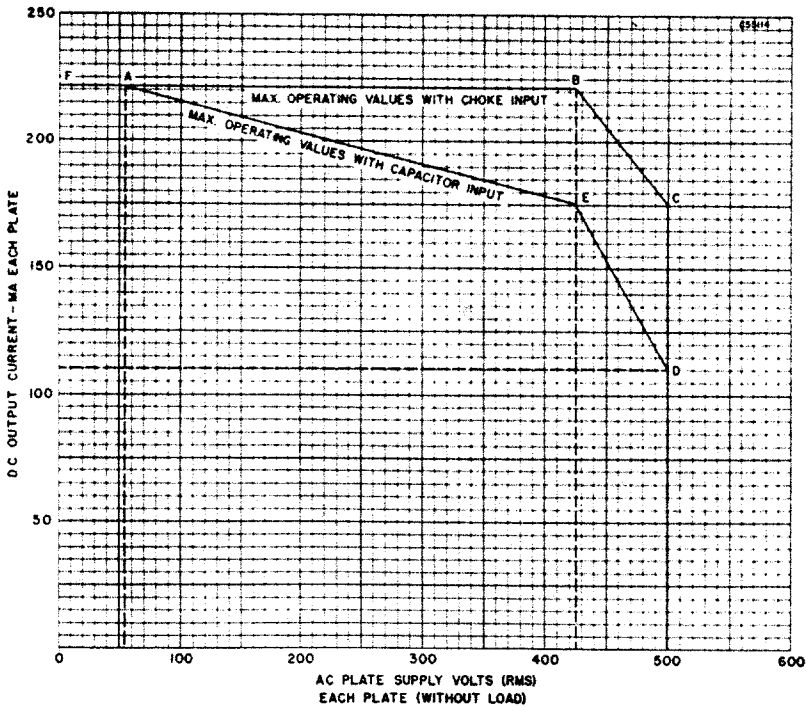
Full-Wave Rectifier—Choke Input Filter

AC Plate Supply Voltage (Each Plate RMS)⁽³⁾ 500 Volts
 Filter Input Choke 10 Henrys
 DC Output Current..... 350 Ma
 DC Output Voltage at Filter Input 390 Volts
 Tube Voltage Drop for Ib = 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.

RATING CHART

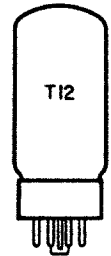
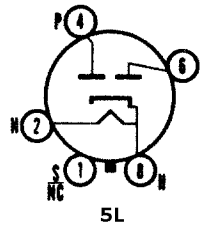


5V4GA

FULL-WAVE POWER RECTIFIER

Heater-Cathode Twin Diode

- Construction Octal T-12
- Base 5 Pin, B5-15
- Basing 5L
- Outline 12-14
- Maximum Diameter 1.563 In.
- Maximum Seated Height 3.313 In.
- Maximum Overall Height 3.875 In.



ELECTRICAL DATA

HEATER OPERATION

- Heater Voltage 5.0 Volts
- Heater Current 2000 Ma

RATINGS (Design Maximum Rating System)

Rectifier Service⁽¹⁾

- Peak Inverse Plate Voltage (Max.) 1400 Volts
- Steady State Peak Plate Current (Each Plate) (Max.) 525 Ma
- Transient Peak Plate Current (Each Plate) (Max.) 3500 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Full-Wave Rectifier—Capacitor Input Filter

- AC Plate Supply Voltage (Each Plate RMS)⁽²⁾ 375 Volts
- Filter Input Capacitor 10 μ f
- Effective Plate Supply Resistance (Each Plate) 100 Ohms
- DC Output Current 175 Ma
- DC Output Voltage at Filter Input 410 Volts

Full-Wave Rectifier—Choke Input Filter

- AC Plate Supply Voltage (Each Plate RMS)⁽²⁾ 500 Volts
- Filter Input Choke (Min.) 4 Henrys
- DC Output Current 175 Ma
- DC Output Voltage at Filter Input 410 Volts
- Tube Voltage Drop for $I_b = 175$ Ma (Each Plate) 25 Volts

NOTES:

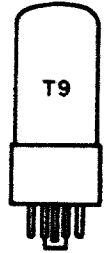
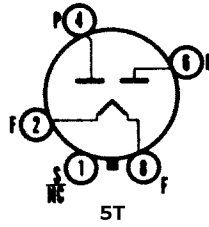
- (1) For use with sinusoidal supply voltages within the frequency range of 25 to 1000 Hertz.
- (2) AC plate voltage is measured without load.

Color Television Type
FULL-WAVE POWER RECTIFIER

5Y3GT

Filamentary Twin Diode

ConstructionOctal T-9
 Base.....5 Pin, B5-10 or B5-62
 Basing⁽¹⁾.....5T
 Outline9-13 or 9-42
 Maximum Diameter1.188 In.
 Maximum Seated Height2.813 In.
 Maximum Overall Height3.375 In.



ELECTRICAL DATA

FILAMENT OPERATION

Filament Voltage..... 5.0 Volts
 Filament Current 2000 Ma

RATINGS (Design Maximum Rating System)

Rectifier Service⁽²⁾

Peak Inverse Plate Voltage (Max.) 1400 Volts
 AC Plate Supply Voltage (Each Plate) (Max.)⁽²⁾ 500 Volts
 DC Output Current (Each Plate) (Condenser Input) (Max.) 42 Ma
 Steady State Peak Plate Current (Each Plate) (Max.) 400 Ma
 Transient Peak Plate Current (Each Plate) (Max.) 2.2 Amperes
 Tube Voltage Drop for $I_b = 125$ Ma (Each Plate) 60 Volts

CHARACTERISTICS AND TYPICAL OPERATION

Full-Wave Rectifier Service—Capacitor Input Filter

AC Plate Supply Voltage (Each Plate RMS)⁽³⁾ 350 Volts
 Input Capacitor 10 μ f
 Effective Plate Supply Impedance (Each Plate)..... 50 Ohms
 DC Output Current..... 125 Ma
 DC Output Voltage 350 Volts

Full-Wave Rectifier Service—Choke Input Filter

AC Plate Supply Voltage (Each Plate RMS)⁽³⁾ 500 Volts
 Input Choke 10 Henrys
 DC Output Current..... 125 Ma
 DC Output Voltage 390 Volts

NOTES:

- (1) Horizontal operation 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.

RATING CHART

