

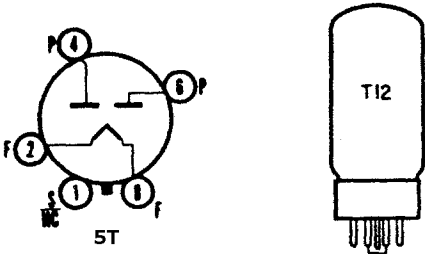
Color Television Type

FULL-WAVE POWER RECTIFIER

5V3A

Filamentary Twin Diode

ConstructionOctal T-12
BaseB5-110, 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 Current3000 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 Point240 °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 Input300 440 Volts

Full-Wave Rectifier—Choke Input Filter

AC Plate Supply Voltage (Each Plate RMS)⁽³⁾500 Volts
Filter Input Choke10 Henrys
DC Output Current.....350 Ma
DC Output Voltage at Filter Input390 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

