

Grid No. 2 Input (Max.)	—	0.55 Watts
Grid No. 1 Circuit Resistance ⁽¹⁾		
Fixed Bias (Max.)	0.5	0.25 Megohms
Cathode Bias (Max.)	1.0	1.0 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

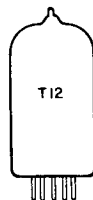
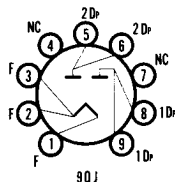
	Triode Section	Pentode Section
Plate Supply Voltage.....	150	125 Volts
Grid No. 2 Supply Voltage.....	—	125 Volts
Grid No. 1 Voltage	-3	— Volts
Cathode Bias Resistor	—	56 Ohms
Plate Current	15	12 Ma
Grid No. 2 Current	—	3.8 Ma
Transconductance	4500	7800 μ mhos
Amplification Factor	21	—
Plate Resistance (Approx.)	4700	170,000 Ohms
Ec1 for Ib = 20 μ a (Approx.).....	-17	-6 Volts
Ib with Ec1 = -3 Volts, RK = 0	—	1.6 Ma

NOTE:

- (1) If either section is operating at maximum rated conditions, the grid No. 1 circuit resistance for both sections should not exceed the stated values.

5BC3**FULL-WAVE POWER RECTIFIER****Filamentary Twin Diode**

Construction Novar T-12
 Base Large Button 9-Pin, E9-76
 Basing^(1,2) 9QJ
 Outline
 Maximum Diameter 1.563 In.
 Maximum Seated Height 3.780 In.
 Maximum Overall Height 4.160 In.

**ELECTRICAL DATA****FILAMENT OPERATION**

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

RATINGS (Design Maximum Rating System)**Rectifier Service⁽³⁾**

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) ⁽⁴⁾	300	450	550 Volts
Filter Input Capacitor.....	40	40	40 μ f
Effective Plate Supply Resistance (Each Plate)	21	67	97 Ohms
DC Output Current.....	150-300	137.5-275	81-162 Ma
DC Output Voltage at Filter Input	335-290	520-460	680-630 Volts

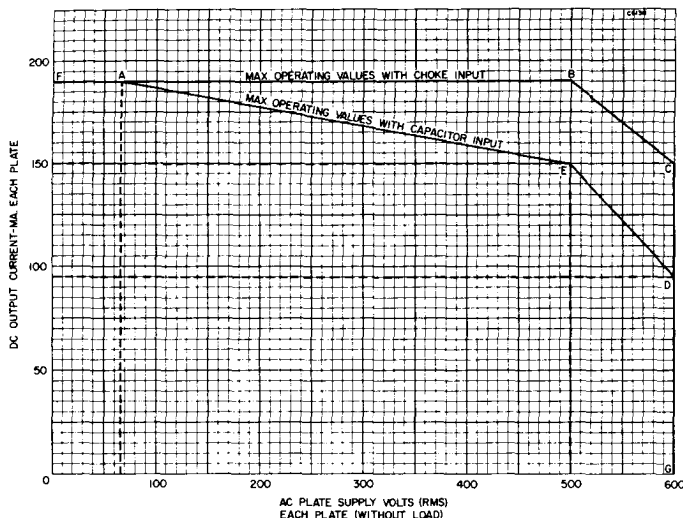
Full-Wave Rectifier—Choke Input Filter

AC Plate Supply Voltage (Each Plate, RMS) ⁽⁴⁾	450	550 Volts
Filter Input Choke.....	10	10 Henrys
DC Output Current	174-348	137.5-275 Ma
DC Output Voltage at Filter Input	355-340	455-440 Volts
Tube Voltage Drop for Ib = 275 Ma.....	—	47 Volts

NOTES:

- (1) Horizontal operation is permitted if Pins 2 and 7 are in a vertical plane.
- (2) Pins 4 and 7 may be used as tie points for AC line providing peak value does not exceed 200 volts.
- (3) For use with sinusoidal supply voltages within the frequency range of 25 to 1000 hertz.
- (4) AC plate voltage is measured without load.

RATING CHART (5BC3)



FULL-WAVE POWER RECTIFIER

5BC3A

Filamentary Twin Diode

Construction Novar T-12

Base Large Button 9 Pin, E9-88
(Exhaust Tip on Base)

Basing 9QJ

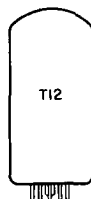
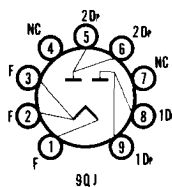
Outline 12-99

Maximum Diameter 1.563 In.

Maximum Seated Height 3.500 In.

Maximum Overall Height 3.880 In.

The 5BC3A is identical to the 5BC3 except for base with exhaust tip at bottom and shorter bulb.



FULL-WAVE POWER RECTIFIER

5DJ4

Filamentary Twin Diode

Construction Octal T-12

Base Octal 8 Pin, B8-118

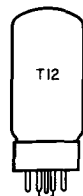
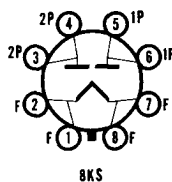
Basing⁽¹⁾ 8KS

Case Study	10-15
Outline	12-16

Maximum Diameter 1.563 In.

Maximum Seated Height 4.063 In.

Maximum Overall Height 4.625 In.



ELECTRICAL DATA

ELECTRICAL DATA FILAMENT OPERATION

FILAMENT OPERATION
Filament Voltage.....

Filament Current

5.0 Volts
3000 Ma