



5V3

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FULL-WAVE VACUUM RECTIFIER**GENERAL DATA****Electrical:**

Filament, Coated:

Voltage (AC or DC)	5	volts
Current	3.8	amp

Mechanical:

Operating Position. Vertical, or Horizontal with pins 2 and 4 in vertical plane

Maximum Overall Length. 4-5/8"

Maximum Seated Length 4-1/16"

Diameter. 1.438" to 1.562"

Bulb. T12

Base. Short Medium-Shell Octal 8-Pin with External Barriers, Style B (JEDEC Group 1, No. B8-118)

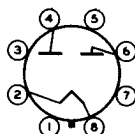
Basing Designation for BOTTOM VIEW. 5T

Pin 1—No Connection

Pin 2—Filament

Pin 3—Same as Pin 1

Pin 4—Plate No. 2



Pin 5—Same as Pin 1

Pin 6—Plate No. 1

Pin 7—Same as Pin 1

Pin 8—Filament

FULL-WAVE RECTIFIER**Maximum Ratings, Design-Center Values:***For power-supply frequencies of 25 to 1000 cps*

PEAK INVERSE PLATE VOLTAGE 1400 max. volts

AC PLATE SUPPLY VOLTAGE PER PLATE (RMS)

(See Rating Chart I) 500 max. volts

STEADY-STATE PLATE CURRENT PER PLATE

(See Rating Chart II) 1.2 max. amp

TRANSIENT PEAK PLATE CURRENT PER PLATE

(See Rating Chart III) 5.5 max. amp

DC OUTPUT CURRENT. See Rating Chart I

Typical Operation:

	With capacitor	With choke
	input to filter	input to filter

AC Plate-to-Plate

Supply Voltage

(RMS) [▲] 600 850 1000 volts

Filter-Input Capacitor

.40 40 — μ f

Filter-Input Choke . .

— — 10 henries

Total Effective Plate

Supply Impedance

Per Plate. 24 56 — ohms

DC Output Voltage at

input to filter. 285 430 385 volts

DC Output Current. . .

380 350 350 ma

5V3



5V3

FULL-WAVE VACUUM RECTIFIER

Characteristics:

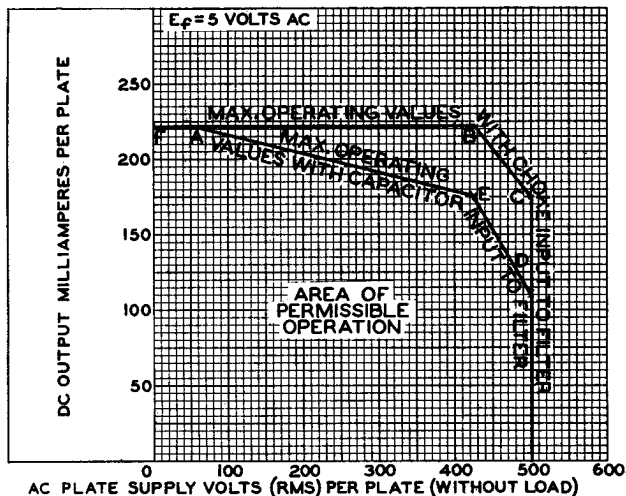
Tube-Voltage Drop for plate ma. = 350 (Per plate). 47 volts

▲ AC plate supply voltage is measured without load.

10-59

DATA

RATING CHART I



ELECTRON TUBE DIVISION

92CS-10231

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



5V3

5V3

RATING CHART II CAPACITOR INPUT TO FILTER

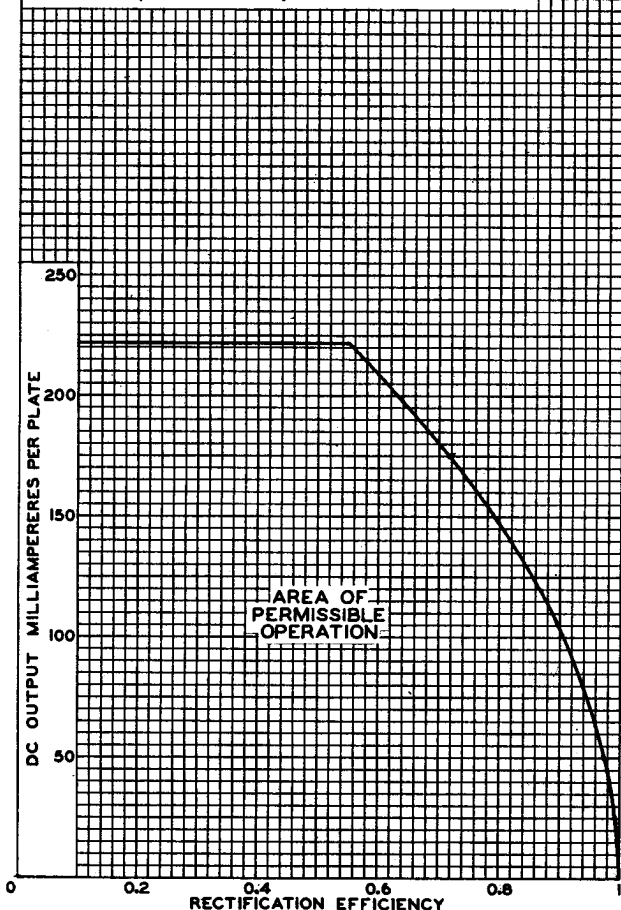
$E_f = 5$ VOLTS AC

STEADY-STATE PEAK PLATE CURRENT PER PLATE
(AMPERES) = 1.2

$$\text{RECTIFICATION EFFICIENCY} = \frac{E}{\sqrt{2} E_s}$$

WHERE E = DC OUTPUT VOLTS AT INPUT TO FILTER

E_s = AC PLATE SUPPLY VOLTS (RMS) PER PLATE
(WITHOUT LOAD)

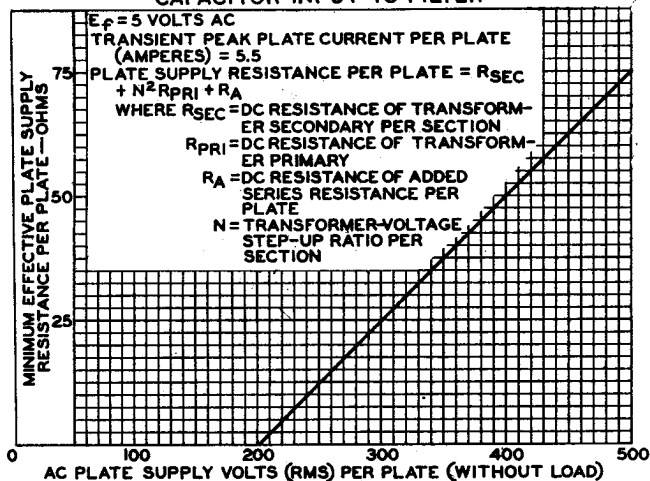


5V3

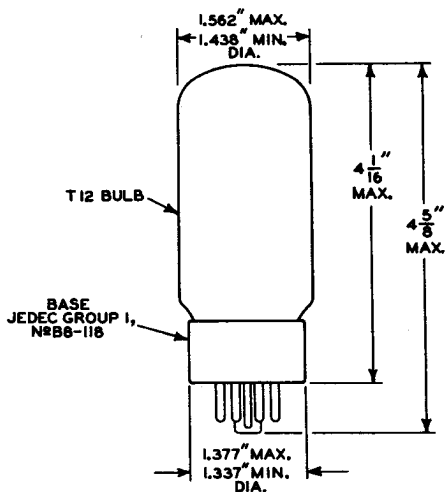


5V3

RATING CHART III CAPACITOR INPUT TO FILTER



92CS-10212



92CS-10233