

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

Filament, Coated:

Voltage (AC or DC). 5 $\pm$ 10% volts
Current at 5 volts. 3^a amp

Mechanical:

Operating Position. Vertical, base down or up, 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

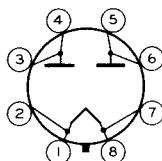
Base. Short Medium-Shell Octal 8-Pin
with External Barriers, Style B (JEDEC Group 1, No. B8-118), or
Style A (JEDEC Group 1, No. B8-110)

Basing Designation for BOTTOM VIEW. 8KS

Pin 1 } Filament
Pin 2 }

Pin 3 - Plate No. 2

Pin 4 - Plate No. 2



Pin 5 - Plate No. 1

Pin 6 - Plate No. 1

Pin 7 } Filament

Pin 8 }

FULL-WAVE RECTIFIER

Maximum Ratings, Design-Maximum Values:

For power-supply frequencies of 25 to 1000 cps

PEAK INVERSE PLATE VOLTAGE. 1700 max. volts

AC PLATE SUPPLY VOLTAGE PER PLATE

(RMS, without load). See Rating Chart I

STEADY-STATE PEAK PLATE CURRENT

PER PLATE (See Rating Chart II). 1 max. amp

TRANSIENT PEAK PLATE CURRENT

PER PLATE (See Rating Chart III). 5 max. amp

DC OUTPUT CURRENT. See Rating Chart I

Typical Operation:

*With capacitor-
input filter With choke-
input filter*

AC Plate-to-Plate

Supply Voltage

(RMS, without load). 600 900 1100 volts

Filter-Input Capacitor^b. 40 40 - μ f

Filter-Input Choke. - - 10 henrys

Total Effective Plate

Supply Impedance

Per Plate. 21 67 - ohms

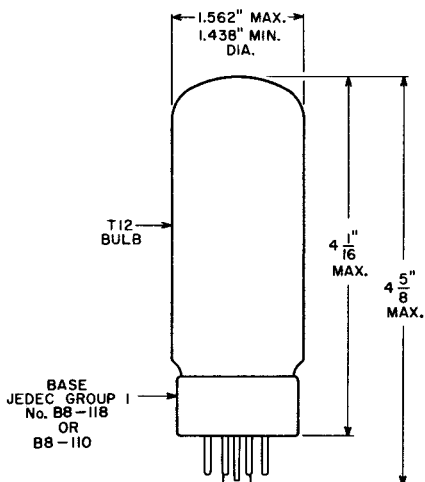


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DC Output Voltage at				
input to filter	290	460	420	volts
DC Output Current	300	275	275	ma

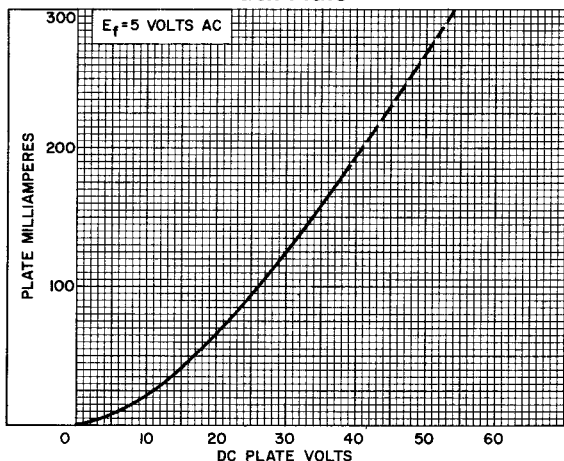
a Or 1.5 amperes per base pin.

b Values of capacitance greater than $40\ \mu\text{f}$ may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating



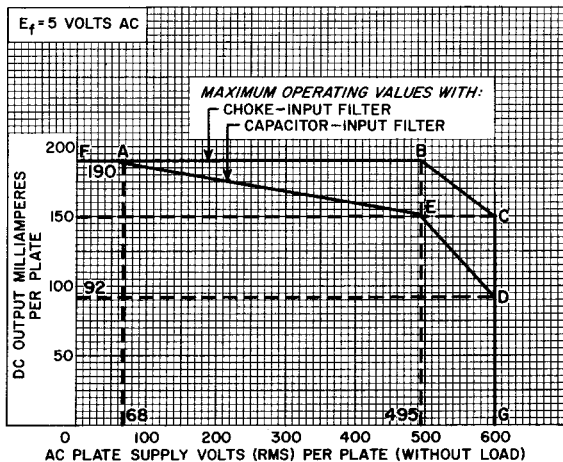
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AVERAGE PLATE CHARACTERISTIC Each Plate



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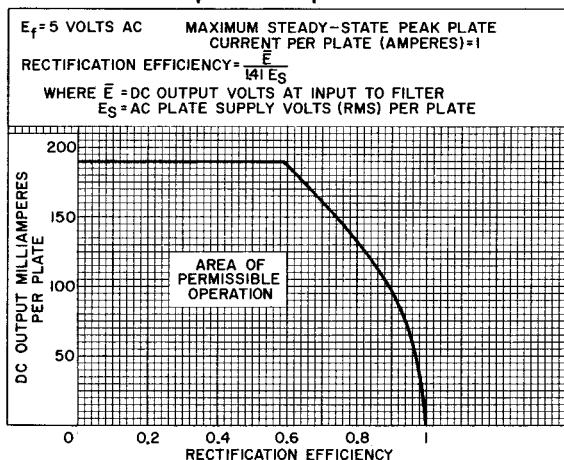
RATING CHART I



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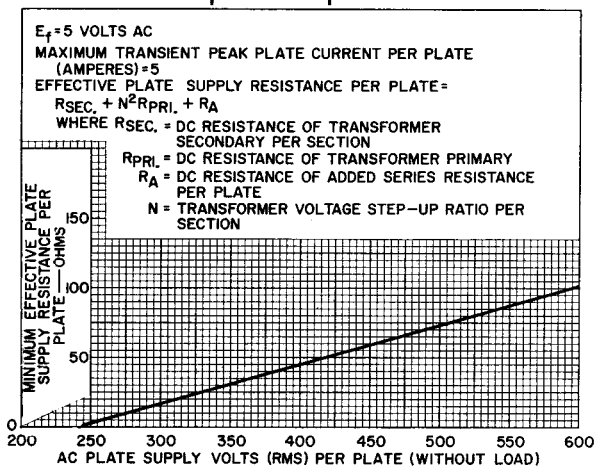


RATING CHART II Capacitor-Input Filter



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RATING CHART III Capacitor-Input Filter



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