

# 5Y3GT

## Full-Wave Vacuum Rectifier

### GENERAL DATA

#### Electrical:

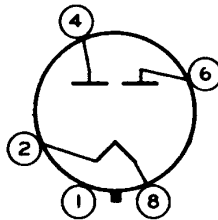
Filament, Coated:

Voltage (AC or DC) . . . . . 5 volts  
 Current . . . . . 2 amp

#### Mechanical:

Operating Position. . . . . Vertical, base down or up, or ←  
 Horizontal with pins 2 and 4 in vertical plane  
 Maximum Overall Length. . . . . 3-3/8"  
 Maximum Seated Length . . . . . 2-13/16"  
 Maximum Diameter. . . . . 1-9/32" ←  
 Dimensional Outline . . . . . See *General Section*  
 Bulb. . . . . T9  
 Base. . . . . Intermediate-Shell Octal 5-Pin, ←  
 Arrangement 1 (JEDEC Group 1, No. B5-10), or  
 Short Intermediate-Shell Octal 5-Pin  
 with External Barriers, Arrangement 1  
 (JEDEC Group 1, No. B5-62)  
 Basing Designation for BOTTOM VIEW. . . . . 5T

Pin 1 - No Connection  
 Pin 2 - Filament



Pin 4 - Plate No. 2  
 Pin 6 - Plate No. 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, without load) . . . . . See *Rating Chart I*  
 STEADY-STATE PEAK PLATE CURRENT  
 PER PLATE (See *Rating Chart II*) . . . . . 440 max. ma  
 TRANSIENT PEAK PLATE CURRENT  
 PER PLATE (See *Rating Chart III*). . . . . 2.5 max. amp  
 DC OUTPUT CURRENT . . . . . See *Rating Chart I*

#### Typical Operation:

	<i>With capacitor- input filter</i>	<i>With choke- input filter</i>	
AC Plate-to-Plate Supply Voltage (RMS, without load) . . . . .	700	1000	volts
Filter-Input Capacitor <sup>a</sup> . . . . .	20	-	μf

← Indicates a change.



# 5Y3GT

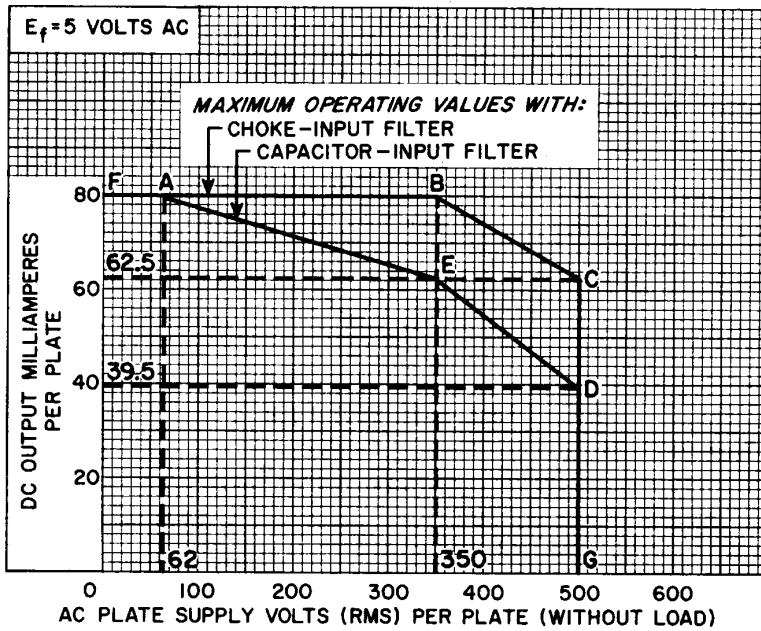
Filter-Input Choke . . . . .	-	10	henrys
Total Effective Plate Supply Impedance			
Per Plate . . . . .	50	-	ohms
DC Output Voltage at input to filter . . . . .	360	380	volts
DC Output Current . . . . .	125	125	ma

→ **Characteristics, Instantaneous Test Condition:**

Tube-Voltage Drop for plate ma. = 125  
 (Per plate) . . . . . 50 volts

<sup>a</sup> Values of capacitance greater than 20  $\mu f$  may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.

## RATING CHART I



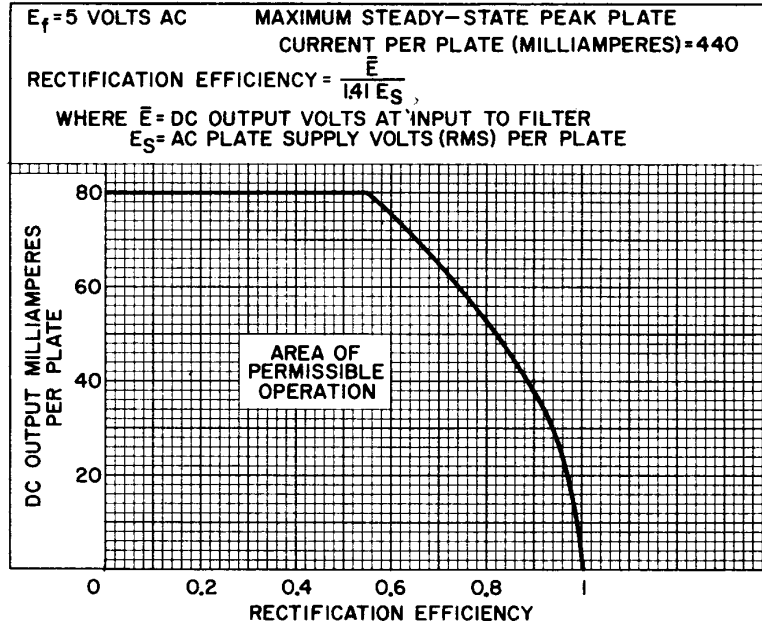
92CS-7396RI

→ Indicates a change.



# 5Y3GT

## RATING CHART II Capacitor-Input Filter



## RATING CHART III Capacitor-Input Filter

