

Full-Wave Vacuum Rectifier

GENERAL DATA

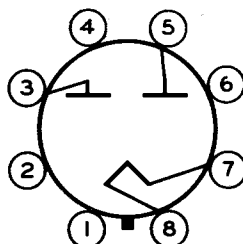
Electrical:

Filament, Coated:
 Voltage (AC or DC) 5 volts
 Current 2 amp

Mechanical:

Operating Position. Vertical, base down or up, or
 Horizontal with pins 1 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. 5Q

Pin 1—No Connection
 Pin 2—No Connection
 Pin 3—Plate No.2
 Pin 4—No Connection



Pin 5—Plate No.1
 Pin 6—No Connection
 Pin 7—Filament
 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
 STEADY-STATE PEAK PLATE CURRENT
 PER PLATE 400 max. ma
 TRANSIENT PEAK PLATE CURRENT PER PLATE. . . 2.2 max. amp
 DC OUTPUT CURRENT See Rating Chart

Typical Operation:

	With capacitor- input filter	With choke- input filter	
AC Plate-to-Plate Supply Voltage (RMS, without load)	700	1000	volts
Filter-Input Capacitor ^a	10	—	μf
Filter-Input Choke	—	10	henrys
Total Effective Plate Supply Impedance Per Plate.	50	—	ohms



5Y4GA

DC Output Voltage at input			
to filter.	350	390	volts
DC Output Current.	125	125	ma

Characteristics, Instantaneous Test Condition:

Tube-Voltage Drop for plate ma. = 125
(Per plate). 60 volts

^a Values of capacitance greater than 10 μ f may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.

RATING CHART

