Full-Wave Vacuum Rectifier

GENERAL DATA

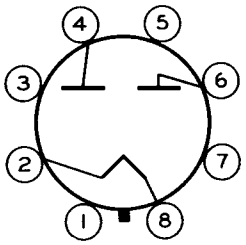
Electrical:

Filament, Coated:		
Voltage (AC or DC)	5	volts
Current	3.75	amp

Mechanical:

Operating Position	Vertical, base down or up, or Horizontal with pins 2 and 4 in vertical plane
Maximum Overall Length	4-3/4"
Maximum Seated Length	4-3/16"
Maximum Diameter	1-11/16"
Bulb	T12
Base	Jumbo-Shell Octal 8-Pin with External Barriers (JEDEC Group 1, No.B8-114)
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, without load)	See *Rating Chart*	
STEADY-STATE PEAK PLATE CURRENT PER PLATE	1.075 max.	amp
TRANSIENT PEAK PLATE CURRENT PER PLATE for duration of 0.2 second maximum	5.25 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)	600	800	1000	volts
Filter-Input Capacitor[a]	40	40	–	μf
Filter Input Choke	–	–	10	henrys
Total Effective Plate Supply Impedance Per Plate	30	50	–	ohms

DC Output Voltage at input to filter . . .	275	395	395	volts
DC Output Current . . .	350	325	325	ma

Characteristics:

Tube-Voltage Drop for plate ma. = 350
(Per plate) . . . . . 50 volts

[a] When capacitance values higher than 40 μf are used, the effective plate supply impedance should be increased so that the maximum peak-plate-current rating is not exceeded.

RATING CHART