Full-Wave Vacuum Rectifier

GENERAL DATA

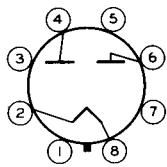
Electrical:

Filament, Coated:		
Voltage (AC or DC)	5 ± 10%	volts
Current at 5 volts	3	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), or Short Medium-Shell Octal 5-Pin with External Barriers, Style B, Arrangement 1 (JEDEC Group 1, No. B5-121)
Basing Designation for BOTTOM VIEW	5T

Pin 1 – No Connection
Pin 2 – Filament
Pin 3[a] – 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-Maximum Values:*

For power-supply frequencies of 25 to 1000 cps

PEAK INVERSE PLATE VOLTAGE	1550 max.	volts
AC PLATE SUPPLY VOLTAGE PER PLATE (RMS, without load)	550 max.	volts
STEADY-STATE PEAK PLATE CURRENT PER PLATE	1.4 max.	amp
TRANSIENT PEAK PLATE CURRENT PER PLATE	6.6 max.	amp
DC OUTPUT CURRENT with capacitor-input filter for ac plate supply volts (RMS, per plate, without load) = 470	415 max.	ma

Typical Operation:

	With capacitor-input filter		*With choke-input filter*	
AC Plate-to-Plate Supply Voltage (RMS, without load)	600	850	1000	volts
Filter-Input Capacitor[b]	40	40	–	μf
Filter-Input Choke	–	–	10	henrys

Total Effective Plate Supply Impedance Per Plate	20	50	–	ohms
DC Output Voltage at input to filter . . .	300	440	390	volts
DC Output Current . . .	380	350	350	ma

Characteristics:

Tube-Voltage Drop for plate ma. = 350 (Per plate)	42	volts

[a] On the 5-pin base, pin 3 as well as pins 5 and 7 is omitted.

[b] 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.