

5V3A

Full-Wave Vacuum Rectifier

GENERAL DATA

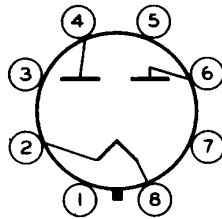
Electrical:

Filament, Coated:
 Voltage (AC or DC) $5 \pm 10\%$ 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	-	μ f
Filter-Input Choke.	-	-	10	henrys



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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 μ f are used, the effective plate supply impedance should be increased so that the maximum peak-plate-current rating is not exceeded.

