

5AU4

Full-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

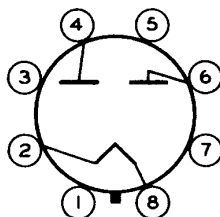
Filament, Coated:

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



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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

