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-Shelf 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 ................... 50

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 Choke Plate
Supply Impedance Per Plate ......................... 50 – ohms

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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

\[ \text{Values of capacitance greater than 10 } \mu \text{f may be used, provided the plate supply impedance is increased to prevent exceeding the maximum peak-plate-current rating.} \]

RATING CHART

\[ E_f = 5 \text{ VOLTS AC} \]

MAXIMUM OPERATING VALUES WITH:
- CHOKE-INPUT FILTER
- CAPACITOR-INPUT FILTER

DC OUTPUT MILLIAMPERES PER PLATE

80 -
75 -
62.5 -
60 -
42 -
40 -
20 -

AC PLATE SUPPLY VOLTS (RMS) PER PLATE (WITHOUT LOAD)

0 100 200 300 400 500 600

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