

HALF-WAVE VACUUM RECTIFIER

GENERAL DATA
Electrical:
Heater, for Unipotential Cathode: Voltage 3.15 ac volts Current 0.22 amp Direct Interelectrode Capacitance (Approx.): Plate to cathode & internal shield & heater 1.8 μμf
Mechanical:
Mounting Position. Maximum Overall Length Seated Length. Maximum Diameter Maximum Overall Length Maximum Overall Length Maximum Diameter Maximum Diame
PULSED-RECTIFIER SERVICE
Maximum Ratings, Design-Center Values Except as Noted:
For operation in a 525-line, 30-frame system [□]
INVERSE PLATE VOLTAGE: Total dc and peak (Absolute maximum)
Under no circumstances should this absolute value be exceeded.
OPERATING CONSIDERATIONS
Socket Connections. Low-potential circuits should not be

connected to any of the socket terminals. Any or all of the following socket terminal connections are permissible



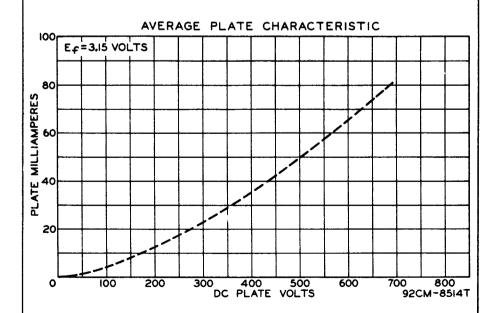
HALF-WAVE VACUUM RECTIFIER

and may aid in corona reduction.

- 1. Pins 1,3,5, and 7 may be connected together.
- 2. Pins 2,6, and 8 may be connected together.
- 3. Pin 4 may be connected to either pin 2 or pin 7, or may be used as a tie point for a heater-voltage dropping resistor. Do not use pin 4 as a low-potential tie point.

Measurement of Heater Voltage. To measure the heater voltage when the heater is at a highdc potential with respect to ground, it is recommended that a simple method utilizing visual comparison of the cathode and heater temperatures be used. The color temperature of the cathode and heater, with the heater operating from a pulse-power source, may be checked visually by comparing in a darkened room this color temperature with that obtained when the heater of another 3B2 is operated from a dc or low-frequency ac supply of 3.15 volts.

 $\emph{X-rays}$. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce $\emph{X-rays}$ which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.



JULY 1, 1955

TENTATIVE DATA