HALF-WAVE VACUUM RECTIFIER

Octal type used as a high-voltage rectifier to supply power to the anode of the television picture tube. Outlines section, 14F; requires octal socket. Socket terminals 3, 4, 5, 6, and 8 should not be used as tie points although terminals 3, 5, and 8 may be connected to terminal 7. For high-voltage and X-ray safety considerations, refer to page 93.

3DB3/3CY3

Heater Voltage ........................................ 3.15 volts
Heater Current ........................................ 0.245 ampere
Direct Interelectrode Capacitance (Approx.):
Plate to Heater, Cathode, and Internal Shield ....... 1.5 pF

MAXIMUM RATINGS (Design-Maximum Values)
Peak Inverse Plate Voltage# ................................ 38000 volts
Peak Plate Current ...................................... 100 mA
Average Plate Current .................................. 2 mA
Heater Voltage:
Absolute-maximum value ................................ 3.65 volts
Absolute minimum value ................................ 2.65 volts

CHARACTERISTIC, instantaneous Value
Tube Voltage Drop for plate current of 7 mA ........... 100 volts

X-RADIATION CHARACTERISTIC
X-Radiation, Maximum:
Statistical value controlled on a lot sampling basis .... 25 mR/hr
# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).
• The dc component must not exceed 30000 volts.

Caution—Operation of this tube outside of the maximum values indicated above may result in either temporary or permanent changes in the X-radiation characteristic of the tube. Equipment design must be such that these maximum values are not exceeded.

3DA3/3DH3

HALF-WAVE VACUUM RECTIFIER

Glass octal type used as a rectifier in high-voltage circuits of color and black-and-white television receivers. Because of its fast warm-up time it is particularly suited for transistorized systems. Outlines section, 14F; requires octal socket. Socket terminals 4, 6, and 8 may be used as tie points. For high-voltage and X-ray safety considerations, refer to page 93. This type is identical with type 3CU3A except for the following items:

Pulsed Rectifier

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)
Peak Plate Current ...................................... 110 mA
Average Plate Current .................................. 2.2 mA