

**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.

Refer to chart at end of section.

**3AW3**

Refer to chart at end of section.

**3B2**

Refer to chart at end of section.

**3B4WA**

Refer to chart at end of section.

**3BA6**

Refer to chart at end of section.

**3BC5**

Refer to type 6BC5.

**3BC5/3CE5**

Refer to chart at end of section.

**3BE6**

Refer to chart at end of section.

**3BL2**

Refer to chart at end of section.

**3BL2A**

Refer to chart at end of section.

**3BM2**

Refer to chart at end of section.

**3BN2**

Refer to chart at end of section.

**3BN2A**

Refer to chart at end of section.

**3BN4**

Refer to type 6BN4A.

**3BN4A**

Refer to type 6BN6.

**3BN6**

Refer to chart at end of section.

For replacement use type 3BW2/3BS2A/3BT2.

**3BS2A**

For replacement use type 3BW2/3BS2A/3BT2.

**3BT2**

Refer to chart at end of section.

**3BU8**

Refer to type 6BU8.

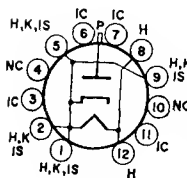
**3BU8/3GS8**

For replacement use type 3BW2/3BS2A/3BT2.

**3BW2**

**3BW2/  
3BS2A/  
3BT2**

### HALF-WAVE VACUUM RECTIFIER



**12HY**

Duodecar type used as a high-voltage rectifier to supply power to the anode of the picture tube in color television receivers. Outlines section, 9B; requires octal socket. Socket terminals 4 and 10 may be used as tie points for components at or near heater potential. For high-voltage and X-ray safety considerations, refer to page 93.

|                                               |      |        |
|-----------------------------------------------|------|--------|
| Heater Voltage (ac/dc)                        | 3.15 | volts  |
| Heater Current                                | 0.48 | ampere |
| Direct Interelectrode Capacitance (Approx.):  |      |        |
| Plate to Cathode, Heater, and Internal Shield | 1.6  | pF     |

### Flyback Rectifier

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

#### MAXIMUM RATINGS (Design-Maximum Values)

|                             |        |       |
|-----------------------------|--------|-------|
| Peak Inverse Plate Voltage# | 38000* | volts |
| Peak Plate Current          | 110    | mA    |
| Average Plate Current       | 2.2    | mA    |
| Heater Voltage:             |        |       |
| Absolute-maximum value      | 3.65   | volts |
| Absolute-minimum value      | 2.65   | volts |

#### CHARACTERISTIC, Instantaneous Value

|                                                        |    |       |
|--------------------------------------------------------|----|-------|
| Tube Voltage Drop (Approx.), for plate current of 7 mA | 70 | volts |
|--------------------------------------------------------|----|-------|

#### X-RADIATION CHARACTERISTIC

##### X-Radiation, Maximum:

|                                                      |    |       |
|------------------------------------------------------|----|-------|
| Statistical value controlled on a lot sampling basis | 25 | mR/hr |
|------------------------------------------------------|----|-------|

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**3BY6**

Refer to chart at end of section.

For replacement use type 3CS6.

**3BZ6**

Refer to type 6BZ6.

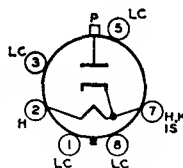
**3CA3**

Refer to chart at end of section.

## 3CA3A

### HALF-WAVE VACUUM RECTIFIER

Glass octal type used as a rectifier in high-voltage pulse circuits of color television receivers. Outlines section, 14E; requires octal socket. Socket terminals 1, 3, 4, 5, 6, and 8 may be connected to terminal 7 or to a corona shield which connects to terminal 7. Socket terminals 4 and 6 may be used as tie points at or near cathode potential. For high-voltage and X-ray safety considerations, refer to page 93.



8MH

|                                               |       |        |
|-----------------------------------------------|-------|--------|
| Heater Voltage (ac)                           | 3.6   | volts  |
| Heater Current                                | 0.225 | ampere |
| Direct Interelectrode Capacitance (Approx.):  |       |        |
| Plate to Heater, Cathode, and Internal Shield | 1.6   | pF     |

### Pulsed Rectifier

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

#### 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      | 4.14   | volts |
| Absolute-minimum value      | 3.06   | volts |

#### CHARACTERISTIC, Instantaneous Value

|                                              |    |       |
|----------------------------------------------|----|-------|
| Tube Voltage Drop for plate current of 11 mA | 60 | volts |
|----------------------------------------------|----|-------|

#### X-RADIATION CHARACTERISTIC

##### X-Radiation, Maximum:

|                                                      |    |       |
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|------------------------------------------------------|----|-------|

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