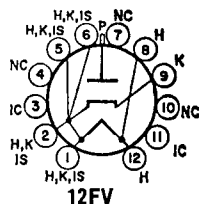


**3AT2B****HALF-WAVE  
VACUUM RECTIFIER**

Duodecar type used as a high-voltage rectifier to supply power to the anode of the television picture tube. **Outlines section, 9B**; requires duodecar 12-contact socket. Socket terminals 4, 7, and 10 may be used as tie points for components at or near filament potential. For high-voltage and X-ray safety considerations, refer to page 93. **Heater:** volts (ac/dc), 3.15; ampere, 0.22.

**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	88	mA
Average Plate Current	1.7	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	60	volts
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**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.

**3AU6**

Refer to type 6AU6A.

**3AV6**

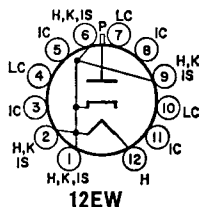
Refer to chart at end of section.

**3AW2**

Refer to chart at end of section.

**3AW2A****HALF-WAVE  
VACUUM RECTIFIER**

Duodecar type used as a high-voltage rectifier to supply power to the anode of the picture tube in color and black-and-white television receivers. **Outlines section, 9B**; requires duodecar 12-contact socket. Socket terminals 4, 7, and 10 may be used as tie points at or near heater potential. For high-voltage and X-ray safety considerations, refer to page 93. **Heater:** volts (ac/dc), 3.15; ampere, 0.35.

**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	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 for plate current of 7 mA	60	volts
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**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).

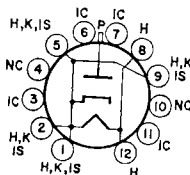
• The dc component must not exceed 30000 volts.

**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.	<b>3AW3</b>
Refer to chart at end of section.	<b>3B2</b>
Refer to chart at end of section.	<b>3B4WA</b>
Refer to chart at end of section.	<b>3BA6</b>
Refer to chart at end of section.	<b>3BC5</b>
Refer to type 6BC5.	<b>3BC5/3CE5</b>
Refer to chart at end of section.	<b>3BE6</b>
Refer to chart at end of section.	<b>3BL2</b>
Refer to chart at end of section.	<b>3BL2A</b>
Refer to chart at end of section.	<b>3BM2</b>
Refer to chart at end of section.	<b>3BN2</b>
Refer to chart at end of section.	<b>3BN2A</b>
Refer to chart at end of section.	<b>3BN4</b>
Refer to type 6BN4A.	<b>3BN4A</b>
Refer to type 6BN6.	<b>3BN6</b>
Refer to chart at end of section.	<b>3BS2A</b>
For replacement use type 3BW2/3BS2A/3BT2.	<b>3BT2</b>
For replacement use type 3BW2/3BS2A/3BT2.	<b>3BT2</b>
Refer to chart at end of section.	<b>3BU8</b>
Refer to type 6BU8.	<b>3BU8/3GS8</b>
For replacement use type 3BW2/3BS2A/3BT2.	<b>3BW2</b>

**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
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#### 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.

● 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.

**3BY6**

Refer to chart at end of section.

For replacement use type 3CS6.

**3BZ6**

Refer to type 6BZ6.

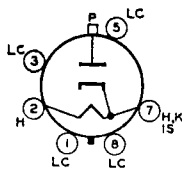
**3CA3**

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
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#### 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.