

CHARACTERISTICS AND TYPICAL OPERATION

	Characteristics	Typical Operation	
Plate Supply Voltage	110	70	volts
Grid Supply Voltage	—	0	volts
Cathode-Bias Resistor	130	—	ohms
Grid Resistor	—	47000	ohms
Amplification Factor	63	68	
Plate Resistance (Approx.)	7000	5440	ohms
Transconductance	9000	12500	μ mhos
Grid Voltage (Approx.) for plate current of 100 μ A	—5	—	volts
Grid Voltage (Approx.) for plate current of 10 μ A	—6.8	—	volts
Plate Current	6.5	7	mA

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:*		
For fixed-bias operation	2.2	megohms
For cathode-bias operation	0.5	megohm

* A plate supply voltage of 300 volts may be used provided that a sufficiently large resistor is used in the plate circuit to limit the plate dissipation to 1.5 watts under any condition of operation.

■ For operation at metal-shell temperatures up to 135° C.

Refer to chart at end of section.

2EN5

Refer to type 6ER5.

2ER5

Refer to type 6FH5.

2FH5

Refer to type 6FQ5A.

2FQ5A

Refer to type 6FS5.

2FS5

Refer to type 6GK5.

2GK5

Refer to type 6GU5.

2GU5

Refer to type 6HA5.

2HA5

Refer to type 6HQ5.

2HQ5

Refer to chart at end of section.

3A2

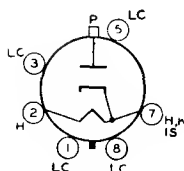
Refer to chart at end of section.

3A3

Refer to chart at end of section.

3A3/3B2

**HALF-WAVE
VACUUM RECTIFIER**



8EZ

1, 3, 4, 5, 6, and 8 may be connected to socket terminal 7. Socket terminals 4 and 6 may be used as tie points for components at or near heater potential. For high-voltage and X-ray safety considerations, refer to type 1G3GT/1B3GT.

Heater Voltage (ac)	3.15*	volts
Heater Current	0.22	ampere
Direct Interelectrode Capacitance (Approx.):		
Plate to Heater, Cathode, and Internal Shield	1.5	pF

* Under no circumstances should the heater voltage be less than 2.65 volts or greater than 3.65 volts.

Pulsed Rectifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	30000	volts
-----------------------------	-------	-------

**3A3A
3A3A/3B2**

Peak Plate Current	100	mA
Average Plate Current	2	mA
# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).		

3A8GT

Refer to chart at end of section.

3AF4A

Refer to chart at end of section.

3AF4A/3DZ4

Refer to type 6AF4A.

3AL5

Refer to type 6AL5.

3AT2**HALF-WAVE
VACUUM RECTIFIER**

Duodecar type used as a rectifier in high-voltage pulse circuits of color television receivers. **Outlines section, 9B;** requires duodecar 12-contact socket. For high-voltage and X-ray safety considerations, refer to type 1G3GT/1B3GT.

Heater Voltage (ac/dc)	3.15	volts
Heater Current	0.22	ampere
Direct Interelectrode Capacitance:		
Plate to Cathode, Heater, and Internal Shield	1.5	pF

Pulsed Rectifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	30000	volts
Peak Plate Current	88	mA
Average Plate Current	1.7	mA

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

3AU6

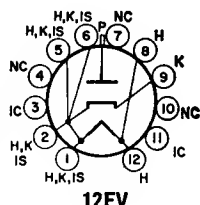
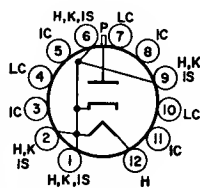
Refer to type 6AU6A.

3AV6

Refer to type 6AV6.

3AW2**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 3, 5, 8 and 11 should not be used as tie points. For high-voltage and X-ray safety considerations, refer to type 1G3GT/1B3GT. Heater: volts (ac/dc), 3.15; amperes, 0.35.

**12FV****12EW****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

CHARACTERISTICS, Instantaneous Value

Tube Voltage Drop for plate current of 7 mA	60	volts
---	----	-------

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

* The dc component must not exceed 30000 volts.

3AW3

Refer to chart at end of section.

3B2

Refer to chart at end of section.

3BA6

Refer to chart at end of section.

3BC5

Refer to chart at end of section.