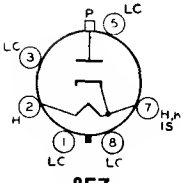
CHARACTERISTICS AND TYPICAL OPERATION	Characteristics	Typical Operation	
Plate Supply Voltage	110	70	volts
Grid Supply Voltage	—	0	volts
Cathode-Bias Resistor	130	—	ohms
Grid Resistor	—	47000	ohms
Amplification Factor	63	68	
Plate Resistance (Approx.)	7000	5440	ohms
Transconductance	9000	12500	μmhos
Grid Voltage (Approx.) for plate current of 100 μA	—5	—	volts
Grid Voltage (Approx.) for plate current of 10 μA	—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**



8EZ

HALF-WAVE VACUUM RECTIFIER

3A3A
3A3A/3B2

Glass octal type used as a rectifier in high-voltage pulse circuits of color television receivers. Outlines section, 14E; require octal socket. Socket terminals 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 tbe 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

Peak Plate Current	100	mA
Average Plate Current	2	mA

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

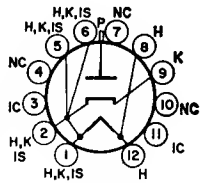
3A8GT Refer to chart at end of section.

3AF4A Refer to chart at end of section.

3AF4A/3DZ4 Refer to type 6AF4A.

3AL5 Refer to type 6AL5.

3AT2 HALF-WAVE VACUUM RECTIFIER



12FV

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)

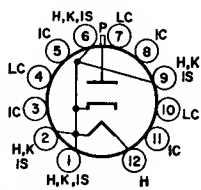
Peak Inverse Plate Voltage#	30000	volts
Peak Plate Current	88	mA
Average Plate Current	1.7	mA

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



12EW

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.

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.