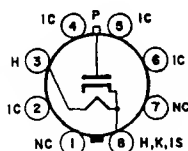


3DF3**HALF-WAVE
VACUUM RECTIFIER****3DF3A**

Glass octal types used as a high-voltage rectifier to supply power to the anode of the picture tube in television receivers. Outlines section, 14G and 14H, respectively; requires octal socket. Socket terminals 1 and 7 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: volts (ac/dc), 3.15; ampere, 0.48.

**8MT****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 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	3DF3 25	3DF3A 8	mR/hr
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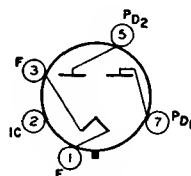
Pulse duration must not exceed 15% of a horizontal scanning cycle.

● 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.

3DG4**3DH3****FULL-WAVE
VACUUM RECTIFIER**

Glass octal type used in power supplies of color and black-and-white television receivers and other equipment having high dc requirements. Outlines section, 19E; requires octal socket. It is especially important that this tube, like other power-handling tubes, be adequately ventilated. For discussion of Rating Chart, refer to Interpretation of Tube Data. Filament: volts (ac/dc), 3.3; amperes, 3.8.

**5DE****Full-Wave Rectifier****MAXIMUM RATINGS (Design-Maximum Values)**

Peak Inverse Plate Voltage	1050	volts
Peak Plate Current (Per Plate)	1.2	amperes
Hot-Switching Transient Plate Current (Per Plate)	6.5	amperes
AC Plate Supply Voltage (Per Plate, rms)	See Rating Chart	
DC Output Current (Per Plate)	See Rating Chart	
Bulb Temperature (At hottest point on bulb surface)	200	°C

TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

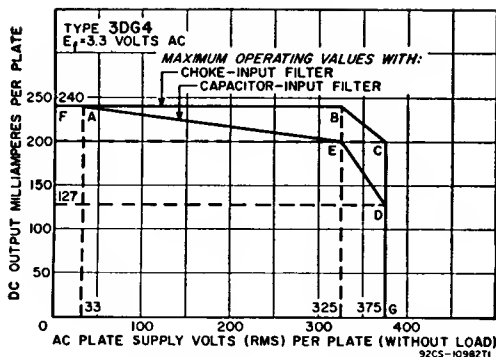
AC Plate-to-Plate Supply Voltage (rms)	550	volts
Filter-Input Capacitor*	40	μF
Effective Plate-Supply Impedance per Plate	32	ohms
DC Output Voltage at Input to Filter (Approx.):		
At full-load current of 350 mA	300	volts

CHARACTERISTICS

Tube Voltage Drop for plate current of 350 mA (per plate)	25	volts
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* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance may have to be increased to prevent exceeding the maximum peak-plate-current rating.

RATING CHART

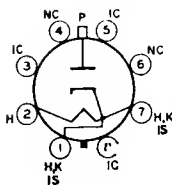


For replacement use type 3DA3/3DH3.

3DH3

HALF-WAVE VACUUM RECTIFIER

3DJ3



8MX

Glass octal type used as a high-voltage rectifier to supply power to the anode of the picture tube in color television receivers. Outlines section, 14H; requires octal socket. 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 page 93. Heater: volts (ac/dc), 3.15; ampere, 0.3.

Flyback Rectifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	38000●	volts
Peak Plate Voltage	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	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.

Refer to type 6DK6.

3DK6

Refer to chart at end of section.

3DR3

Refer to chart at end of section.

3DS3

For replacement use type 3DT6A.

3DT6

Refer to type 6DT6A.

3DT6A

Refer to chart at end of section.

For replacement use type 3AF4A/3DZ4.

3DZ4

Refer to chart at end of section.

3EA5

For replacement use type 3EH7/XF183.

3EH7