6DN3

HALF-WAVE VACUUM RECTIFIER

Novar type used as a damper diode in horizontal-deflection circuits of color television receivers. Outlines section, 8G; requires novar 9-contact socket. Terminals 1, 3, 6, and 8 should not be used as tie points for external-circuit components.

Heater Voltage (ac/dc) .......................... 6.3 volts
Heater Current ......................... 2.4 amperes

Direct Inter-electrode Capacitances:
Plate to Cathode and Heater .................. 13 pF
Cathode to Plate and Heater ............... 16 pF
Heater to Cathode ....................... 4 pF

Damper Service

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

MAXIMUM RATINGS (Design-Maximum Values)
Peak Inverse Plate Voltage# ................ 5500 volts
Peak Plate Current ...................... 2100 mA
Average Plate Current ................. 350 mA
Plate Dissipation ...................... 9 watts
Bulb Temperature (At hottest point) ....... 220 °C
Heater-Cathode Voltage:
Peak value ...................... +300-5500 volts
Average value .................. +100-900 volts

CHARACTERISTIC, Instantaneous Value
Tube Voltage Drop for plate current of 350 mA .... 14 volts

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

6DN6

Refer to chart at end of section.

6DN7

MEDIUM-MU DUAL TRIODE

Glass octal type used as combined vertical-deflection-oscillator and vertical-deflection-amplifier tube in television receivers. Outlines section, 13B; requires octal socket. Heater: volts (ac/dc), 6.3; amperes, 0.9; maximum heater-cathode volts, ±200 peak, 100 average.

Class A, Amplifier

CHARACTERISTICS
Plate Voltage ................................ 250 volts
Grid Voltage .......................... -8 volts
Amplification Factor ............... 22.5
Plate Resistance (Approx.) ........ 9000 ohms
Transconductance .............. 2500 μmhos
Plate Current ...................... 8 mA
Grid Voltage (Approx.) for plate current of 10 μA ...... -18 volts
Grid Voltage (Approx.) for plate current of 50 μA .... --23 volts

Vertical-Deflection Oscillator and Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Voltage ................... 350 volts
Peak Positive-Pulse Plate Voltage# .... 2500 volts
Peak Negative-Pulse Grid Voltage .. 400 mA
Peak Cathode Current .............. 150 mA
Average Cathode Current .......... 50 mA
Plate Dissipation .................. 1 watts

MAXIMUM CIRCUIT VALUES
Grid-Circuit Resistance:
For fixed-bias operation ............. 2.2 megohms
For cathode-bias operation .......... 2.2 megohms

# Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).