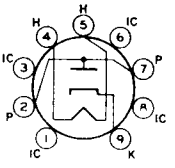
6DN3 HALF-WAVE VACUUM RECTIFIER



9HP

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 Interelectrode 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

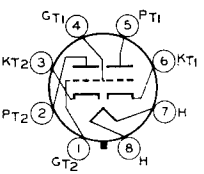
CHARACTERISTIC, Instantaneous Value

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



8BD

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_1 Amplifier

CHARACTERISTICS	Unit No.1	Unit No.2	
Plate Voltage	250	250	volts
Grid Voltage	—8	—9.5	volts
Amplification Factor	22.5	15.4	
Plate Resistance (Approx.)	9000	2000	ohms
Transconductance	2500	7700	μmhos
Plate Current	8	41	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)	Unit No.1 Oscillator	Unit No.2 Amplifier	
DC Plate Voltage	350	550	volts
Peak Positive-Pulse Plate Voltage#	—	2500	volts
Peak Negative-Pulse Grid Voltage	400	250	mA
Peak Cathode Current	—	150	mA
Average Cathode Current	—	50	mA
Plate Dissipation	1	10	watts
MAXIMUM CIRCUIT VALUES			
Grid-Circuit Resistance:			
For fixed-bias operation	2.2	2.2	megohms
For cathode-bias operation	2.2	—	megohms

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