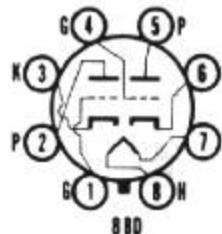
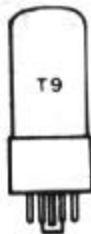


**SYLVANIA TYPE 6SN7GTA
6SN7GTB
8SN7GTB
12SN7GTA**



MEDIUM-MU DUO TRIODE

MECHANICAL DATA

Bulb.....	T-9, Outline 9-11 or 9-41
Base.....	Intermediate Shell Octal 8-Pin or Short Intermediate Shell Octal 8-Pin
Basing.....	88D
Mounting Position.....	Any

ELECTRICAL DATA¹

HEATER CHARACTERISTICS

	6SN7GTA	6SN7GTB	8SN7GTB	12SN7GTA
Heater Voltage.....	6.3	6.3	8.4	12.6 Volts
Heater Current.....	600	600	450	300 Ma
Heater Warm-up Time.....		11	11	Seconds
Maximum Heater-Cathode Voltage.....				200 Volts
Total D C and Peak.....				100 Volts
D C, Heater Positive with Respect to Cathode.....				

DIRECT INTERELECTRODE CAPACITANCES—Unshielded (Approx.)

	Section 1 ²	Section 2
Grid to Plate.....	4.0	3.8 μmf
Input.....	2.2	2.6 μmf
Output.....	0.7	0.7 μmf

MAXIMUM RATINGS (Design Center Values—Except as Noted)

	Class A ₁ Amplifier	Vertical ³ Deflection Amplifier
Plate Voltage.....	450	450 Volts
Peak Positive Plate Voltage (Abs. Max.).....		1500 Volts
Plate Dissipation		
Each Plate.....	5.0	5.0 Watts
Both Plates.....	7.5	7.5 Watts
Peak Negative Grid Voltage.....		250 Volts
Cathode Current.....	20	20 Ma
Peak Cathode Current.....		70 Ma
Grid Circuit Resistance		
Fixed Bias.....	1.0	Megohms
Cathode Bias.....	1.0	2.2 Megohms
	Vertical ³ Deflection Oscillator	Horizontal ³ Deflection Oscillator
Plate Voltage.....	450	450 Volts
Plate Dissipation		
Each Plate.....	5.0	5.0 Watts
Both Plates.....	7.5	7.5 Watts
Peak Negative Grid Voltage.....	400	600 Volts
Average Cathode Current.....	20	20 Ma
Peak Cathode Current.....	70	300 Ma
Grid Circuit Resistance.....	2.2	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier

Plate Voltage.....	90	250 Volts
Grid Voltage.....	0	-8.0 Volts
Plate Current.....	10	9.0 Ma
Plate Resistance (approx.).....	6700	7700 Ohms
Transconductance.....	3000	2600 μmhos
Amplification Factor.....	20	20
Grid Voltage for $I_b=1.3$ Ma.....		-12.5 Volts
Grid Voltage for $I_b=10\mu\text{a}$ (approx.).....	-7.0	-18 Volts

NOTES:

- All ratings, operating conditions and characteristics are for each section except where otherwise stated.
- Section No. 1 connects to pins 4, 5 and 6. Section No. 2 connects to pins 1, 2 and 3.
- For operation in a 525-line, 30 frame system, the duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.

APPLICATION

The Sylvania Types 6SN7GTA, 6SN7GTB, 8SN7GTB and 12SN7GTA are medium mu duo triodes. They may be used as combined vertical oscillators and vertical deflection amplifiers in television receivers or in audio amplifier service. It is electrically equivalent to the 6SN7GT except for higher voltage and dissipation ratings.

Data for use in Resistance Coupled Amplifiers is given in the Appendix.