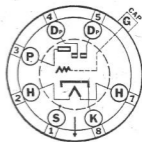


Sylvania
TYPE 6T7G
DUODIODE
HIGH-MU TRIODE



TENTATIVE CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.150 Ampere

Direct Interelectrode Capacitances (Triode Unit):

Grid to Plate	1.7 μf
Input	1.8 μf
Output	3.7 μf
Maximum Over-all Length	4 $\frac{1}{2}$ "
Maximum Diameter	1 $\frac{3}{8}$ "
Bulb	ST-12
Cap	Miniature
Base—Small Octal 7-Pin	7-V

Operating Conditions and Characteristics:

CLASS A AMPLIFIER (TRIODE UNIT)

Heater Voltage	6.3	6.3 Volts
Plate Voltage	100	250 Volts
Grid Voltage*	-1.5	-3.0 Volts
Plate Current*	0.3	0.9 Ma.
Plate Resistance	95000	65000 Ohms
Mutual Conductance	680	1000 μmhos
Amplification Factor	65	65

*These are rating values only and not operating points with coupling resistor. See "Circuit Application."

CIRCUIT APPLICATION

Sylvania Type 6T7G is a new 6.3-volt duodiode high-mu triode in which the heater current rating is only 0.150 ampere. The tube has characteristics quite similar to Type 6Q7G and resembles this type in general design as well as in its applications.

The diodes are substantially the same as those employed in Types 6Q7G, 6B7 and 75 and can therefore be used in similar circuit applications.

The triode section operated with a plate supply of 250 volts and a plate load resistor of 100,000 to 250,000 ohms should have a negative grid bias of approximately 2.5 volts. When the triode is operated on a plate supply of 100 volts with a plate load resistor of 50,000 to 100,000 ohms, the negative grid bias should be of the order of 1.4 volts. For special applications these values may be varied to suit the conditions.