

Sylvania

TYPE 6R7

DUODIODE
MEDIUM-MU
TRIODE



CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.3 Ampere

Direct Interelectrode Capacitances (Triode Unit):

Grid to Plate	2.1 $\mu\mu\text{f}$
Input	5.0 $\mu\mu\text{f}$
Output	4.4 $\mu\mu\text{f}$
Maximum Over-all Length	3 1/8"
Maximum Diameter	1 1/8"
Cap	Miniature
Base—Small Octal 7-Pin	7-V

Operating Conditions and Characteristics:

CLASS A AMPLIFIER (Triode Unit)

Heater Voltage	6.3 Volts
Plate Voltage	250 Volts
Grid Voltage	-9 Volts
Plate Current	9.5 Ma.
Plate Resistance	8500 Ohms
Mutual Conductance	1900 μmhos
Amplification Factor	16

CIRCUIT APPLICATION

Sylvania 6R7 is a heater type tube designed for A-C, D-C, or storage battery operation. This metal tube consists of two diodes and a triode in a single bulb and may be used as a combined diode detector, triode amplifier, and for securing the requisite voltage for automatic volume control.

In general, this tube may be used as the metal equivalent of the Type 85 although appropriate corrections for grid bias, load, etc., must be made in circuit designs when making such a change so as to conform to the Type 6R7 characteristics. The triode section has a higher mutual conductance and higher amplification factor than does the Type 85.

The diodes in the 6R7 are substantially the same as those used in Types 6Q7 and 85 and can therefore be used in similar circuit applications. The diodes are well shielded from the triode section, insuring freedom from inter-action between the respective circuits.

For further details reference may be made to the Circuit Application notes on Type 85 found on Page 117.