

Hygrade Sylvania CORPORATION

TECHNICAL DATA SYLVANIA TYPE 6B8G

Duodiode
High Gain Pentode

CHARACTERISTICS

Heater Voltage AC or DC 6.3 Volts
Heater Current 0.3 Ampere

Direct Interelectrode Capacitances:

Grid to Plate (with tube shield) 0.007 μ F.
Input 3.3 μ F.
Output 9.5 μ F.

OPERATING CONDITIONS AND CHARACTERISTICS

DIODE UNITS

With an applied d-c plate voltage of 10 volts the space current per plate (no external load) should exceed 0.5 milliampere.

PENTODE UNIT CLASS A AMPLIFIER

Heater Voltage	6.3	6.3	6.3	6.3	Volts
Plate Voltage	100	180	250	250*	Volts
Screen Voltage	100	75	100	125*	Volts
Grid Voltage	-3	-3	-3	-3	Volts
Plate Current	5.8	3.4	6.0	9.0	Ma.
Screen Current	1.7	0.9	1.5	2.3	Ma.
Grid Bias Voltage**	-17	-13	-17	-21	Volts
Plate Resistance	0.3	1.0	0.8	0.65	Megohm
Mutual Conductance	950	840	1000	1125	μ mhos
Amplification Factor	285	840	800	730	

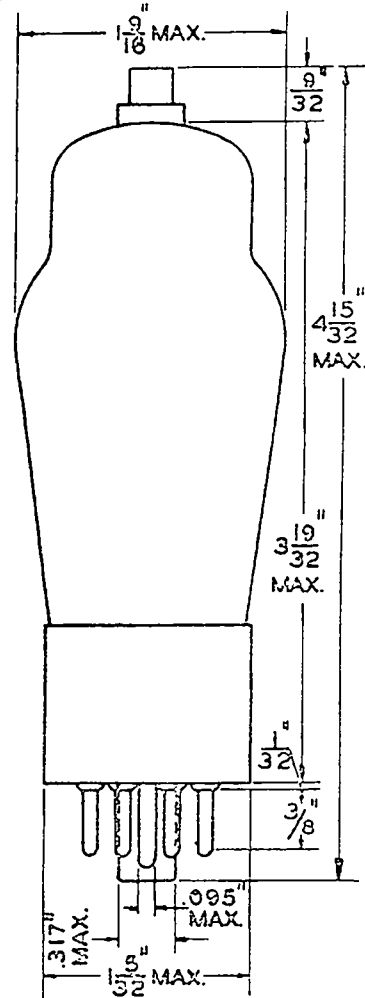
* Maximum

** For cathode current cut-off.

CIRCUIT APPLICATION

Sylvania Type 6B8G is a heater type duodiode pentode equipped with an octal base. This type is identical in design and electrical characteristics to Type 6B7, and may be used simultaneously as a detector, amplifier and a-v-c tube. For additional information on the application of this type refer to the circuit application notes on Type 6B7 in the Sylvania Technical Manual.

SYLVANIA
6B8G



TUBE AND BASE DIAGRAM
(BOTTOM VIEW)

