

Hygrade Sylvania CORPORATION

TECHNICAL DATA SYLVANIA TYPE 6S7G

Super Control Amplifier

CHARACTERISTICS

Heater Voltage AC or DC	6.3	Volts
Heater Current	0.150	Ampere
Direct Interelectrode Capacitances:		
Grid to Plate (with tube shield)	0.010	$\mu\mu\text{F. Max.}$
Input	4.7	$\mu\mu\text{F.}$
Output	6.5	$\mu\mu\text{F.}$

OPERATING CONDITIONS AND CHARACTERISTICS

Heater Voltage	6.3	6.3	Volts
Plate Voltage	100	250*	Volts
Grid Voltage	-3.0	-3.0	Volts Min.
Screen Voltage	100	100	Volts Max.
Suppressor	Connected to cathode at socket		
Plate Current	8.0	8.2	Ma.
Screen Current	2.2	2.0	Ma.
Plate Resistance	0.25	0.8	Megohm
Mutual Conductance	1500	1600	μmhos
Amplification Factor	375	1280	
Grid Voltage**	-40	-40	Volts

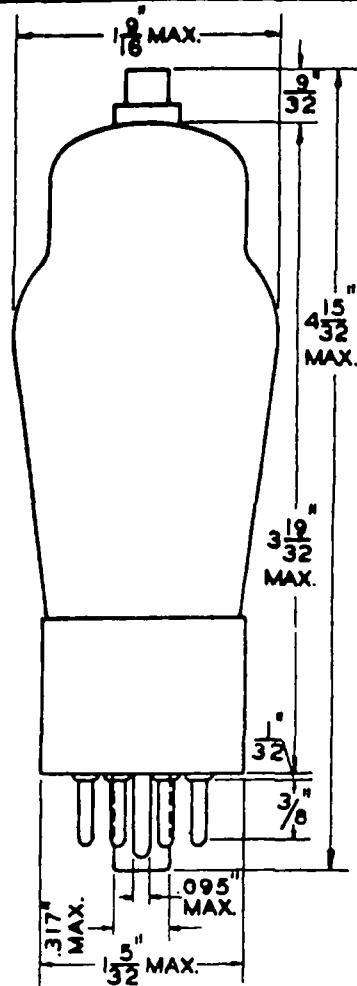
* Maximum

** Grid Voltage for mutual conductance of 10 μmhos .

CIRCUIT APPLICATION

Sylvania 6S7G is a new r-f pentode in which the heater current rating is only 0.150 ampere. The tube has a remote plate current cut-off and is suitable for operation as an r-f or i-f amplifier or first detector in a-c, AC-DC, d-c and automobile radio receivers. The characteristics are similar to those for Type 6D6 so that the circuit applications are well known and do not require repetition in this bulletin.

SYLVANIA
6S7G



TUBE AND BASE DIAGRAM
(BOTTOM VIEW)

