



# Sylvania

## TYPE 6S7G

### TRIPLE GRID

### SUPER-CONTROL

### AMPLIFIER

#### TENTATIVE 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	$\mu\mu\text{f}$
Maximum Over-all Length . . . . .	4 $\frac{3}{32}$ "	
Maximum Diameter . . . . .	1 $\frac{9}{16}$ "	
Bulb . . . . .	ST-12	
Cap . . . . .	Miniature	
Base—Small Octal 7-Pin . . . . .	7-R	

#### Operating Conditions and Characteristics:

##### AMPLIFIER (CLASS A)

Heater Voltage . . . . .	6.3	6.3 Volts
Plate Voltage . . . . .	100	250 Volts Max.
Grid Voltage . . . . .	-3	-3 Volts Min.
Screen Voltage . . . . .	100	100 Volts Max.
Suppressor . . . . .	Tie to Cathode	
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 $\mu\text{mhos}$
Mutual Conductance at -40 volts bias . . . . .	10	10 $\mu\text{mhos}$
Amplification Factor . . . . .	375	1280

#### Operating Conditions with Variable Bias:

##### FIRST DETECTOR IN SUPERHETERODYNE CIRCUIT

Heater Voltage . . . . .	6.3	6.3 Volts
Plate Voltage . . . . .	100	250 Volts Max.
Grid Voltage . . . . .	-10	-10 Volts Min.
Screen Voltage . . . . .	100	100 Volts Max.
Suppressor . . . . .	Tie to Cathode	

#### CIRCUIT APPLICATION

The uses for this tube parallel those for Type 6D6 and reference may be made to the Circuit Application notes for this type as given on Page 45.