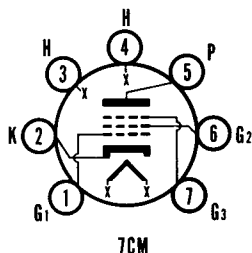




**SYLVANIA TYPES 6GM6
4GM6
5GM6**



MECHANICAL DATA

| | |
|------------------------|------------------------------|
| Bulb..... | T-5½ |
| Base..... | E7-1, Miniature Button 7-Pin |
| Outline..... | 5-2 |
| Basing..... | 7CM |
| Cathode..... | Coated Unipotential |
| Mounting Position..... | Any |

ELECTRICAL DATA

HEATER CHARACTERISTICS

| | 4GM6 | 5GM6 | 6GM6 |
|--|------|------|----------------|
| Heater Voltage..... | 4.2 | 5.6 | 6.3 Volts |
| Heater Current..... | 600 | 450 | 400 Ma |
| Heater Warm-up Time..... | 11 | 11 | — Seconds |
| Heater-Cathode Voltage (Design Maximum Values) | | | |
| Heater Negative with Respect to Cathode | | | |
| Total D C and Peak..... | | | 200 Volts Max. |
| Heater Positive with Respect to Cathode | | | |
| D C..... | | | 100 Volts Max. |
| Total D C and Peak..... | | | 200 Volts Max. |

DIRECT INTERELECTRODE CAPACITANCES

| | Unshielded |
|------------------------------------|---------------|
| Grid No. 1 to Plate..... | .036 μμf Max. |
| Input: g1 to (h+k+g2+g3+l.s.)..... | 10.0 μμf |
| Output: p to (h+k+g2+g3+l.s.)..... | 2.4 μμf |

RATINGS (Design Maximum Values)

| | |
|----------------------------------|-----------------------|
| Plate Voltage..... | 330 Volts Max. |
| Grid No. 2 Supply Voltage..... | 330 Volts Max. |
| Grid No. 2 Voltage..... | See 6AM8 Rating Chart |
| Positive Grid No. 1 Voltage..... | 0 Volts Max. |
| Plate Dissipation..... | 3.1 Watts Max. |
| Grid No. 2 Input..... | 0.65 Watts Max. |

CHARACTERISTICS AND TYPICAL OPERATION

| Class A1 Amplifier | |
|--------------------------------------|-----------------|
| Plate Voltage..... | 125 Volts |
| Grid No. 3..... | Tied to Cathode |
| Grid No. 2 Voltage..... | 125 Volts |
| Cathode Bias Resistor..... | 56 Ohms |
| Plate Current..... | 14 Ma |
| Grid No. 2 Current..... | 3.4 Ma |
| Transconductance..... | 13,000 μmhos |
| Plate Resistance (approx.)..... | 0.2 Megohm |
| Ec1 for Gm = 60 μmhos (approx.)..... | -15 Volts |

APPLICATION

The Sylvania Type 6GM6, 4GM6 and 5GM6 are miniature high transconductance semi-remote pentodes designed for service as IF amplifiers. Types 4GM6 and 5GM6 are designed for series string operation.

SYLVANIA TYPES 6GM6, 4GM6, 5GM6 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS

