

Osram

VALVES

W107 VARIABLE-MU SCREENED PENTODE

DESCRIPTION

Type W107 is a variable-mu H.F. pentode mounted on the miniature B7G all-glass base. It is designed for series heater operation.

RATINGS

| | Pentode Connection | Triode Connection | |
|-------------------------|--------------------|-------------------|------------|
| Heater Current | 0.1 | 0.1 | amp |
| Heater Voltage | 12.6 | 12.6 | volts |
| Cathode Current | 12 | 12 | mA |
| Anode Voltage | 250 | 250† | max. volts |
| Screen Grid Voltage | 250 | — | max. volts |
| Anode Dissipation | 2.5 | 3† | max. watts |
| Screen Grid Dissipation | 0.5 | — | max. watt |
| Impedance* | 0.5 | 0.01 | megohm |
| Mutual Conductance* | 2.5 | 3 | mA/V |
| Amplification Factor* | ... | 30 | |

* Measured at $V_a = V_{g_2} = 200$; $V_{g_1} = -2.5$.

† Combined Anode and Screen ratings.

Capacitances (taken on screened valve):

| | | |
|-------------------------------|-------|------------|
| Anode to all other electrodes | 7 | approx. pF |
| Grid to all other electrodes | 4.2 | " " |
| Anode to Grid | 0.006 | " " |

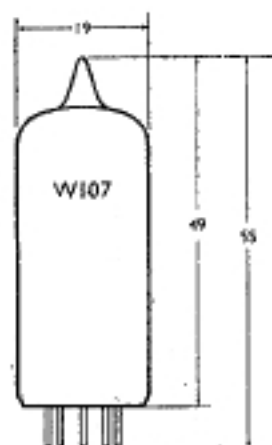
OPERATING CONDITIONS

Class A Amplifier—Pentode Connection

| | | | |
|-------------------------|------|------|-------|
| Anode Voltage | 200 | 200 | volts |
| Screen Grid Voltage | 200 | 200 | volts |
| Suppressor Grid Voltage | 0 | 0 | volts |
| Control Grid Voltage | -2.5 | -2.7 | volts |
| Anode Current | 8 | 7.7 | mA |
| Screen Grid Current | 2 | 1.9 | mA |
| Cathode Bias Resistor | 250 | 270 | ohms |

The effective external grid-to-cathode resistance should not exceed 4 megohms.

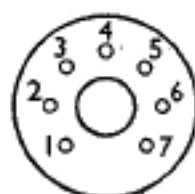
DIMENSIONS



BASE

B7G

- Pin 1: Control Grid, g_1
- 2: Cathode
- 3: Heater
- 4: Heater
- 5: Anode
- 6: Suppressor Grid, g_3
- 7: Screen Grid, g_2



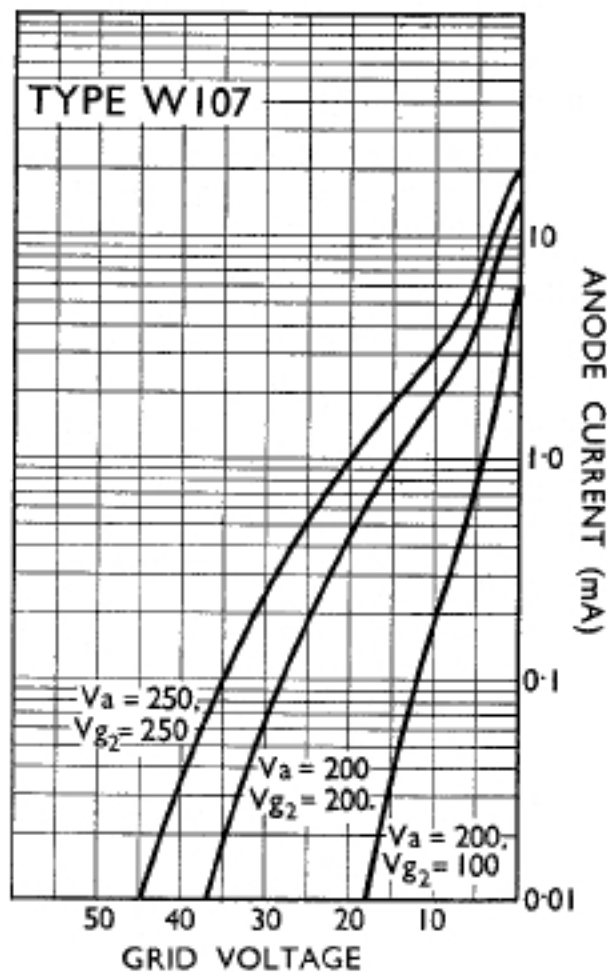
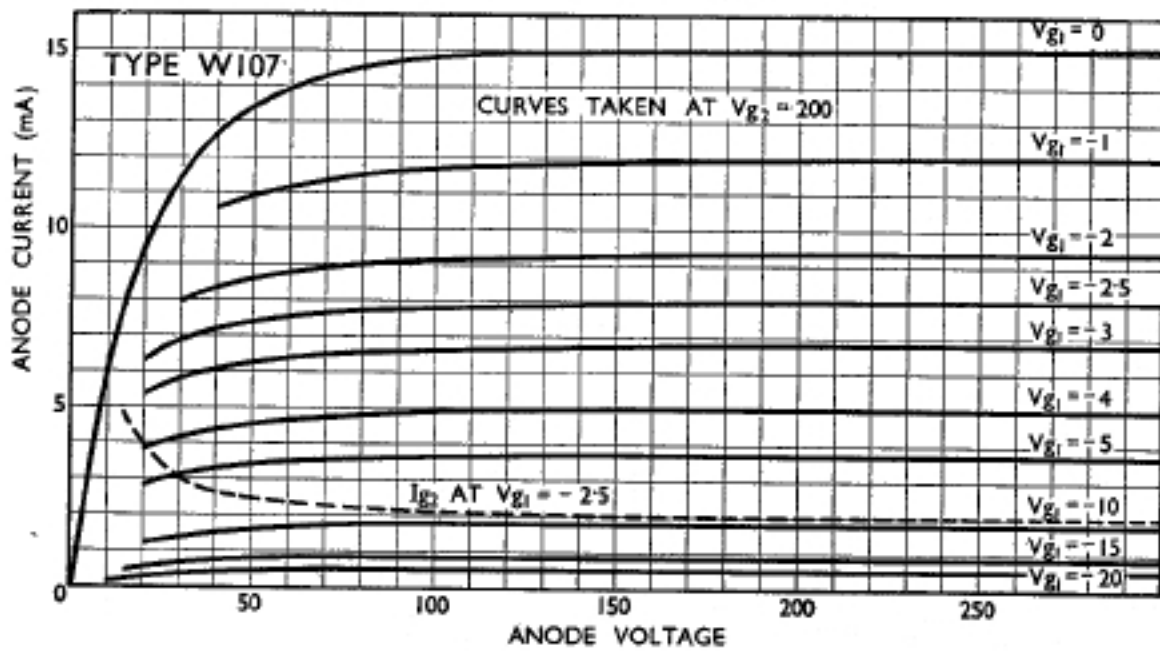
View looking on underside of base.

All dimensions are in mm. and are the maximum except where otherwise stated.

SCREENING. No internal or external screening is fitted to the valve.

MOUNTING. Any position.

TYPE W107



CHARACTERISTIC CURVES OF AVERAGE VALVE.