

# Osram

## VALVES

### Z66 SCREENED PENTODE

**DESCRIPTION**

Type Z66 is an indirectly heated high slope high frequency pentode.

**RATINGS**

Heater Voltage	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	0.63	approx. amp
						<b>Pentode connected</b>	<b>Triode connected</b>
Anode Voltage	...	...	...	...	250	250	max. volts
Anode Dissipation	...	...	...	...	3	4	max. watts
Screen Voltage	...	...	...	...	250		max. volts
Screen Dissipation	...	...	...	...	1		max. watt
Mutual Conductance	...	...	...	...	8.5†	9.0*	mA/V
					7.5‡		mA/V
Operating Frequency	...	...	...	...	100		max. mc/s

† measured at  $V_a=200$ ;  $V_{g_2}=200$ ;  $I_a=10.9$  mA.

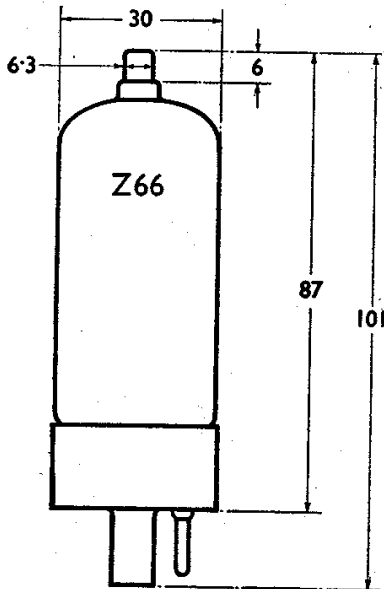
‡ measured at  $V_a=250$ ;  $V_{g_2}=200$ ;  $I_a=8.0$  mA.

\* measured at  $V_a=200$ ;  $I_a=10$  mA.

**Capacitances** (taken with close-fitting shield) :

Control Grid to all other electrodes	...	...	...	...	11.0	approx. pF
Anode to all other electrodes	...	...	...	...	5.5	" "
Anode to Control Grid	...	...	...	...	0.006	" "

**DIMENSIONS**

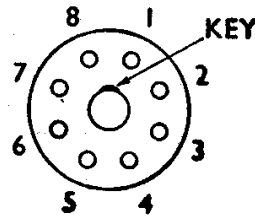


*All dimensions are in mm. and are the maximum except where otherwise stated.*

**BASE**

**8-PIN OCTAL**

- Pin 1 : Not connected
- 2 : Heater
- 3 : Anode
- 4 : Screen Grid,  $g_2$
- 5 : Suppressor Grid,  $g_3$  and Internal Shield
- 6 : Not connected
- 7 : Heater
- 8 : Cathode
- Top Cap : Control Grid,  $g_1$



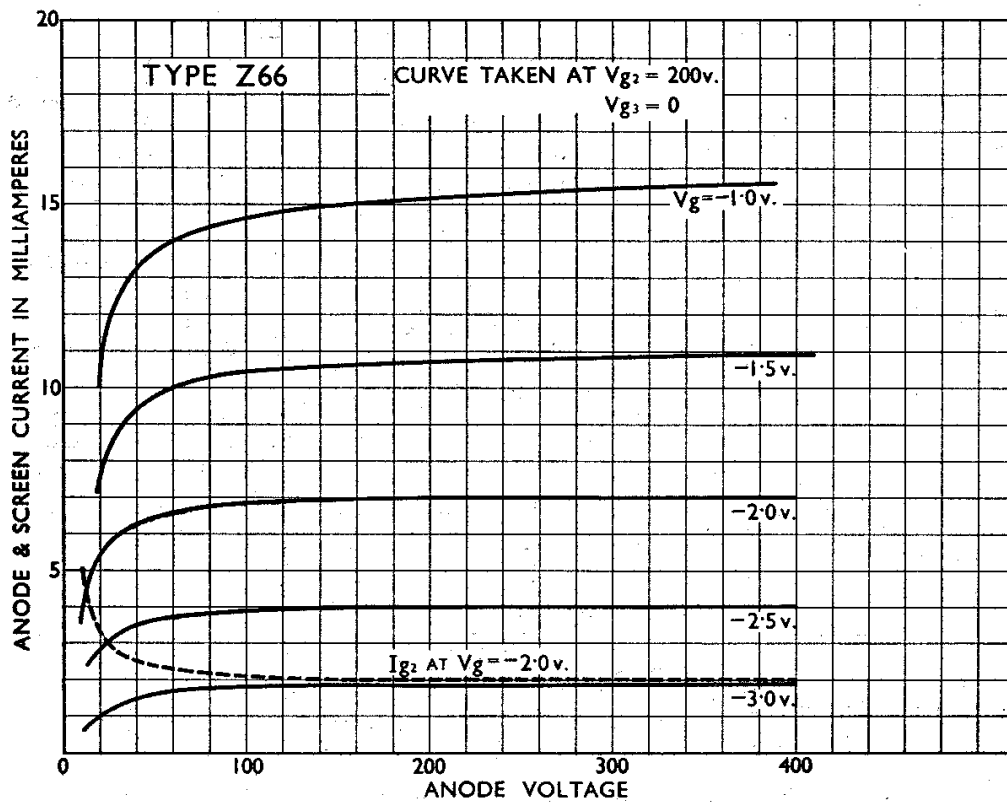
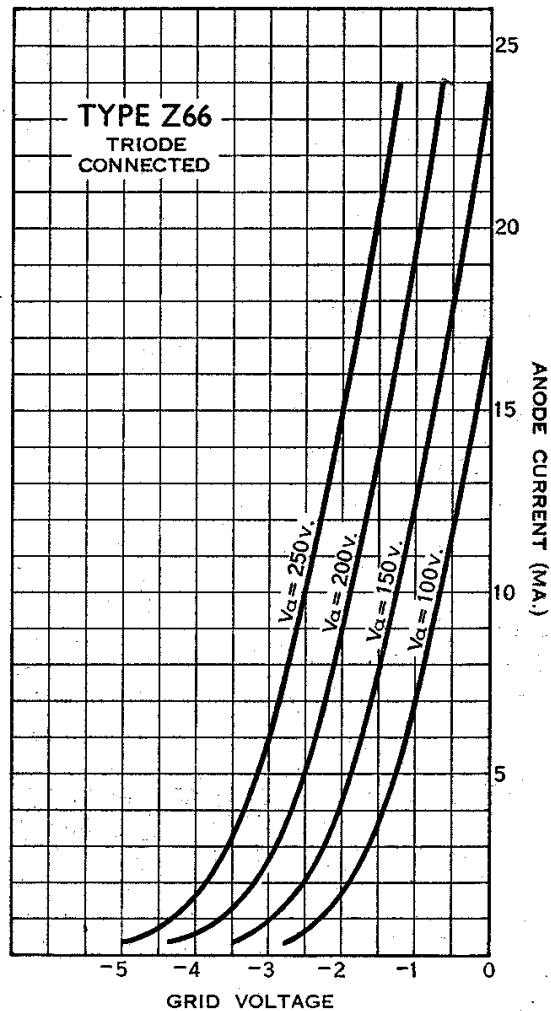
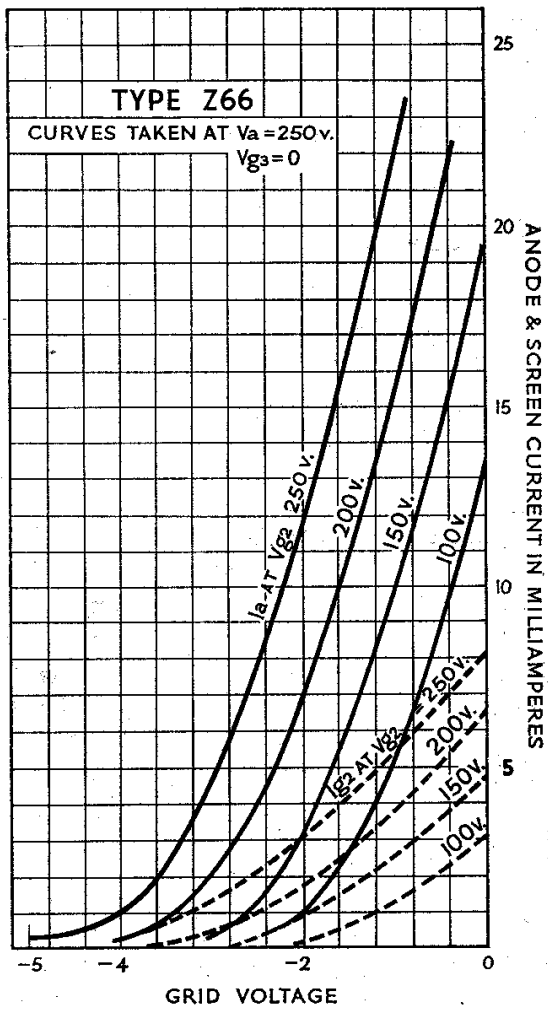
View looking on underside of base.

**OPERATING CONDITIONS**

	<b>Pentode Connected</b>	<b>Triode Connected</b>	
<b>Class A Amplifier</b>			
Anode Voltage	200	200	volts
Anode Current	8.0	14.2	mA
Supp. Grid Voltage	0		volts
Screen Grid Voltage	200		volts
Screen Current	2.0		mA
Control Grid Voltage	-1.85	-1.42	volts
Cathode Bias Resistor	180	100	ohms
Impedance	1.5	0.0075	megohm
Amplification Factor		75	

The effective external control-grid-to-cathode resistance should be kept as low as possible and should not exceed 1 megohm under the above operating conditions. Higher resistance values may be used at an increased value of grid bias.

# TYPE Z66



CHARACTERISTIC CURVES OF AVERAGE VALVE.