Maximum Dimensions :
Overall length (including pins)
290 m/m.

Diameter of bulb
90 m/m.

Osram Valves

Made in England.

TYPE DA100

POWER AMPLIFYING TRIODE

With Directly Heated Filament.

The OSRAM DA100 is a Power Amplifying Triode with Directly Heated Filament, suitable for use in the output stage of an amplifier. The valve is designed for adequate power output and reliable service, and used under correct conditions will provide an exceedingly good working life.

The DA100 Valve is also suitable for operation in push-pull circuits in which a greatly increased power output is obtainable with suitable circuit arrangement.

CHARACTERISTICS.

Filament Volts	6.0
Filament Current	2.7 amps. approx.
Anode Volts	1,000 max.
Grid Volts	–146 approx.
Anode Current average	100 m.a max.
Anode Dissipation	100 watts max.
Amplification Factor	5.5
Impedance	1,410 ohms.
Mutual Conductance	3.9 ma/volt (measured at anode volts 1,000, anode dissipation 100 watts).

Automatic Bias Resistance with A.C. filament heating .. .. .. 1,490 ohms.

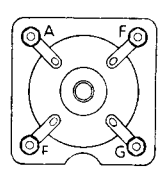
Optimum Load Resistance .. 6,700 ohms for single valve
8,000 ohms (anode to anode) in low loading push-pull

A.C. Power Output for 5% Second Harmonic Distortion .. .. 30 watts approx. for single valve
90 watts approx. in low loading push pull (without positive grid drive).

Interelectrode Capacities ;—

Grid-Anode	16.0 micro- microfarads approx.
Anode-Filaments	9.0 ,, ,, ,,
Grid-Filament	15.0 ,, ,, ,,

For prices see pages 126-129.



View looking on underside of base.

BASE, Special 4-pin

A : Anode
F : Filament
G : Grid
F : Filament

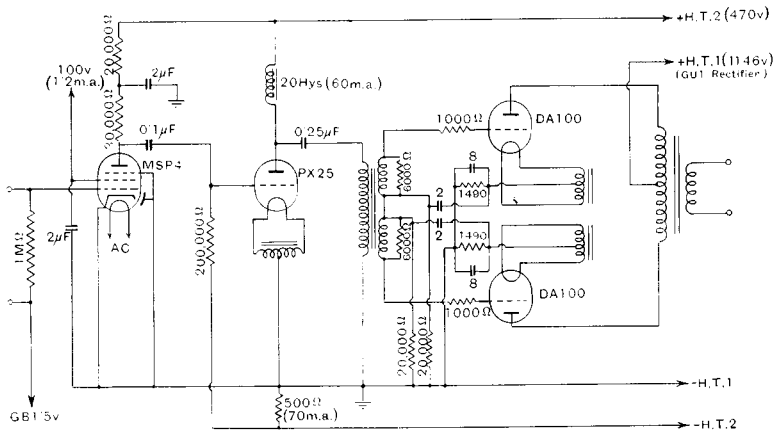
TYPICAL OPERATING CONDITIONS.

Under "Class A" conditions automatic grid bias is strongly recommended. A common application of the DA100 valve is the use of two of such valves in a push pull circuit involving low anode Load Impedance.

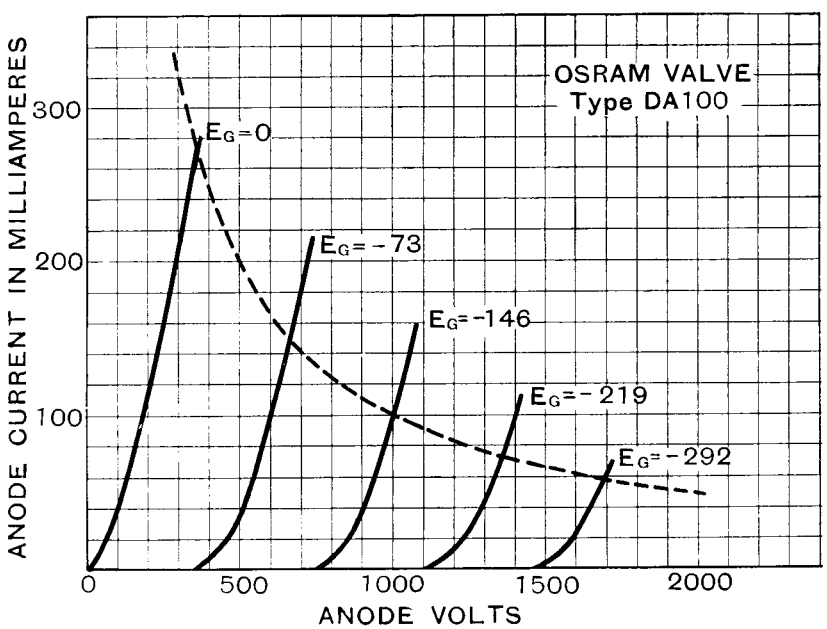
By the use of a pair of DA100 valves in a push pull circuit with low impedance loads, it is possible to obtain a greatly increased undistorted power output. Provision should be made for ample air circulation to prevent overheating and care taken to switch off the power supply when any circuit adjustments are made.

Type DA100 is also suitable for positive grid drive "Class B" circuit under suitable conditions of operation.

TYPE DA100



TYPICAL CIRCUIT FOR 90 WATT AMPLIFIER.



CHARACTERISTIC CURVES OF AVERAGE VALVE.

(Taken with D.C. Filament heating).