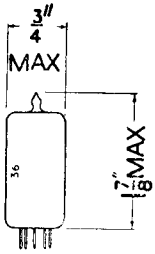


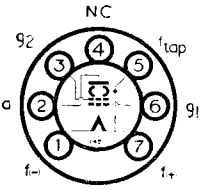
B7G Base

Current Equipment Type

TYPE 3V4

BATTERY

OUTPUT BEAM TETRODE



BRIMAR type 3V4 is an output valve for use in battery and A.C./D.C. Battery receivers where the H.T. supply is 90 volts. Compared with type 3S4 it features increased power sensitivity and reduced harmonic distortion.

RATINGS

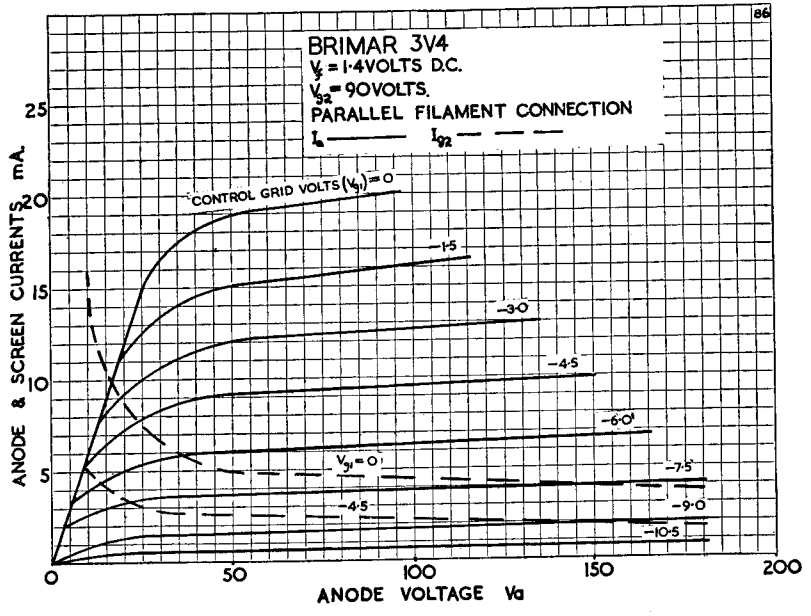
	Series Filaments †	Parallel Filaments	
Filament Voltage	2.8	1.4	volts
Filament Current	0.05	0.1	amp.
Anode Voltage	90	90	volts max.
Screen (g_2) Voltage	90	90	volts max.
Cathode Current	6 *	12	mA max.

OPERATING CHARACTERISTICS

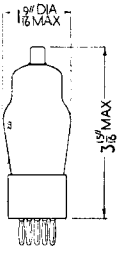
	Series Filaments †	Parallel Filaments	
Anode Voltage	90	90	volts
Anode Current	7.7	9.5	mA
Screen Voltage	90	90	volts
Screen Current	1.7	2.1	mA
Control Grid (g_1) Voltage	—4.5	—4.5	volts
Mutual Conductance	2.0	2.15	mA/V
Anode Impedance	0.12	0.1	meg.
Optimum Load	10,000	10,000	ohms.
Power Output	0.24	0.27	watts
Harmonic Distortion	7	7	per cent.

† *For series operation of the sections, a shunting resistor must be connected across the section between Pins No. 1 and No. 5 to by-pass any cathode current in excess of the rated maximum per section. When other types in series-filament arrangement contribute to the filament current of the* 3V4, *an additional shunting resistor may be required between Pins No. 1 and No. 7.*

* *Values are for each 1.4 volt section.*

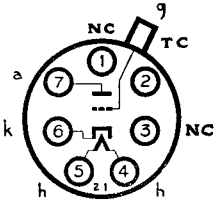


Replacement Type



TYPE **4D1**

(ENGLISH BASE) GENERAL PURPOSE TRIODE



CHARACTERISTICS

Heater Voltage	13 volts	Cathode Bias Resistor ...	300 ohms
Heater Current	0.2 amp.	Mutual Conductance ...	4.0 mA/V
Anode Voltage	250 volts max.	Anode Impedance ...	10,000 ohms
Anode Current	10 mA	Amplification Factor ...	40
Control Grid Voltage	—3 volts		

OPERATION AS LEAKY GRID DETECTOR

Anode Supply Voltage	250 volts	Grid Condenser	200 pF
Anode Load Resistor	25,000 ohms	Grid Leak	1—2 meg.