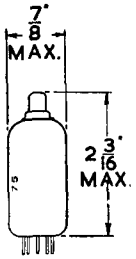
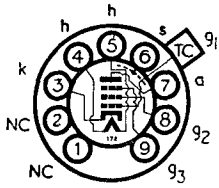


B9A (Noval) Base

Industrial Type

TYPE 6BS7 MINIATURE LOW MICROPHONY AMPLIFIER PENTODE



The BRIMAR type 6BS7 has been specially designed for use in the early stages of high gain A.F. amplifiers. Its extremely rigid construction ensures very low microphony and its thorough screening, with the added features of a top grid connection remote from heater connections, ensures a low hum level.

Properly used, the BRIMAR 6BS7 will operate satisfactorily at input levels as low as 10μ volts on its grid.

RATINGS

Heater Voltage	6.3 volts
Heater Current	0.15 amp.
Anode Voltage	300 volts max.
Anode Dissipation	0.75 watt max.
Screen (g_2) Voltage	125 volts max.
Screen Dissipation	0.3 watt max.

OPERATING CHARACTERISTICS

(g_3 connected to Cathode)

Anode Voltage	100	250	volts
Anode Current	2.0	2.1	mA
Screen Voltage	100	100	volts
Screen Current	0.7	0.6	mA
Control Grid (g_1) Voltage	—3	—3	volts
Anode Impedance	1.5	2.3	meg.
Mutual Conductance	1.1	1.25	mA/V

OPERATION AS RESISTANCE COUPLED AMPLIFIER

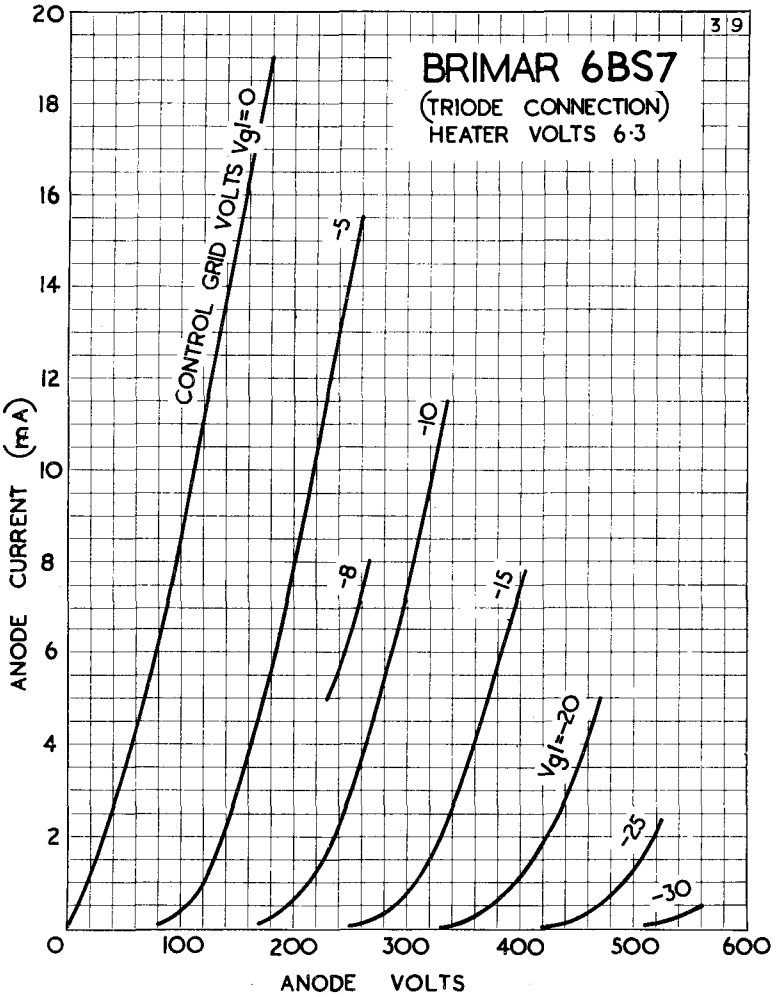
Anode and Screen Supply Voltage	100	200	300	volts
Anode Load Resistor	0.25	0.25	0.25	meg.
Screen Series Resistor	1.0	1.0	1.2	meg.
Cathode Bias Resistor	2,500	1,500	1,200	ohms
Peak Output	35	70	100	volts
Voltage gain	90	120	140	—

INTER-ELECTRODE CAPACITANCES

Input	4.0 pF
Output	4.0 pF
Control Grid to Anode	0.01 pF max.

For characteristic curves refer to type 6BR7.

When connected as a triode (g_3 to Cathode, g_2 to Anode) type 6BS7 has similar characteristics to those of type 6C5G.


BRIMAR 6BS7
(TRIODE CONNECTION)
HEATER VOLTS 6·3
3 9
CONTROL GRID VOLTS Vgl=0
-5
-8
-10
-15
Vgl=-20
-25
-30
ANODE CURRENT (mA)
0
2
4
6
8
10
12
14
16
18
20
100
200
300
400
500
600
ANODE VOLTS