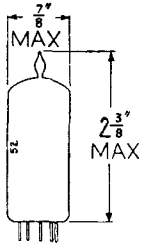
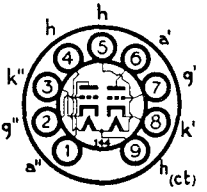
Current Equipment Type



B9A (Noval) Base

TYPE **12BH7** MINIATURE DOUBLE TRIODE (LOW-MU)



The BRIMAR type 12BH7 is a double triode with two independent low impedance units. It is designed particularly for television application, where one valve is suitable for use as frame oscillator and output stages for wide angle deflection cathode ray tubes.

RATINGS

Heater Voltage	6.3	or 12.6 volts
Heater Current	0.6	or 0.3 amp.
Direct Anode Voltage as Frame Scan Output Valve		500 volts max.
Direct Anode Voltage as Class A Amplifier		300 volts max.
Anode Dissipation, each section		3.5 watts max.
Cathode Current, each section		20 mA max.
*Peak Positive Pulse Anode Voltage		1,500 volts max.
*Peak Negative Pulse Grid Voltage		220 volts max.
Peak Cathode Current, each section		70 mA max.

OPERATING CHARACTERISTICS

(As Class A Amplifier, each section)

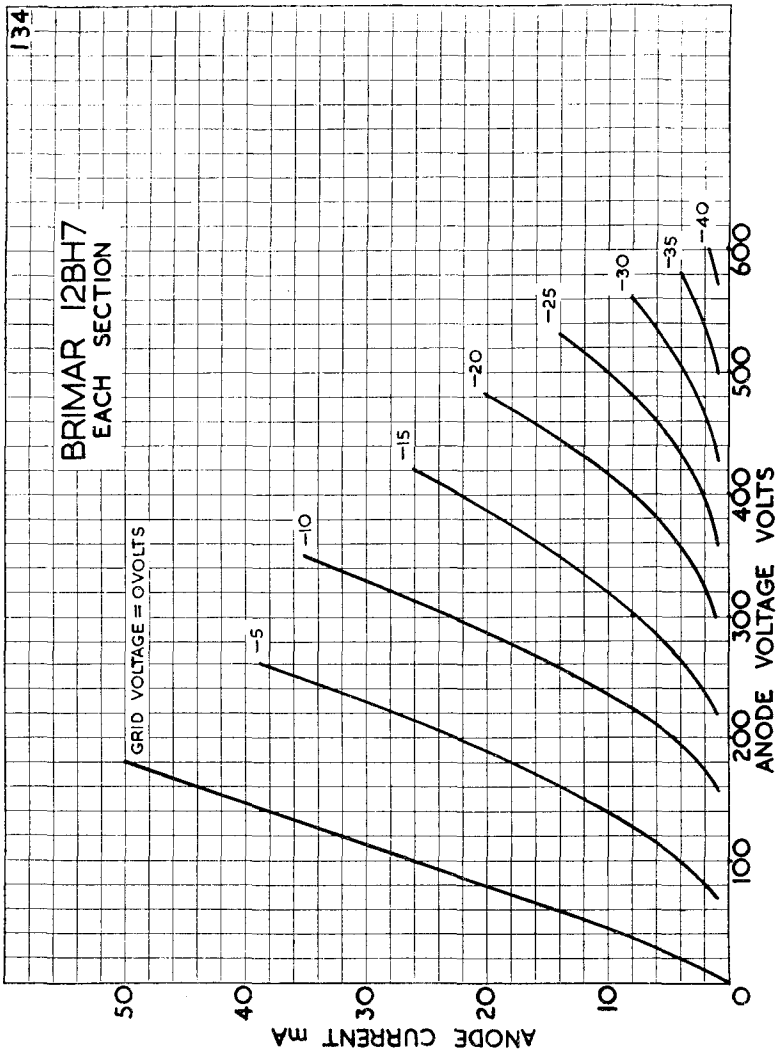
Anode Voltage	85	250	volts
Anode Current	20	11.5	mA
Grid Voltage	0	—10.5	volts
Mutual Conductance	6.2	3.1	mA/V
Amplification Factor	21	17	
Anode Impedance	3,400	5,500	ohms
Grid Voltage for Cut-off	—8	—20	volts

INTER-ELECTRODE CAPACITANCES †

Anode 1 to Anode 2 ($c_{a', a''}$)	0.9 pF
Each Section :	
Input (c_{in})	3.0 pF
Output (c_{out})	0.8 pF
Grid to Anode ($c_{g, a}$)	2.4 pF

* *The duty cycle must not exceed 15 per cent of the scanning cycle, and its duration must not exceed 3 milli-seconds. Ratings are absolute values.*

† *No external shield.*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BRIMAR 12BH7
EACH SECTION
GRID VOLTAGE = 0 VOLTS
-5
-10
-15
-20
-25
-30
-35
-40
ANODE CURRENT mA
0
10
20
30
40
50
ANODE VOLTAGE VOLTS
100
200
300
400
500
600