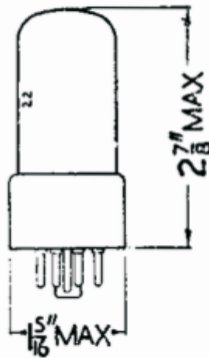


Brimar thermionic products



## TYPE 6SN7GT (OCTAL BASE) LOW-MU DOUBLE TRIODE



The BRIMAR type 6SN7GT is an indirectly heated valve comprising two general purpose triodes in one envelope. With the exception of the heaters, the connections to each assembly are brought out to separate base pins. Type 6SN7GT may be used as oscillator, L.F. amplifier, phase inverter, etc., or the two units may be connected in cascade to give a high overall gain. The operating characteristics of each section are identical to those of type 6J5GT.

### RATINGS

Heater Voltage	...	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	...	0.6 amp.
Anode Voltage	...	...	...	...	...	...	300 volts max.
Anode Dissipation (Each Anode)	...	...	...	...	...	...	2.5 watts max.
Average Grid Current	...	...	...	...	...	...	1.0 mA max.

### OPERATING CHARACTERISTICS (Each Section)

Anode Voltage	...	...	...	...	...	100	250 volts
Anode Current	...	...	...	...	...	10.6	9.0 mA
Control Grid Voltage	...	...	...	...	...	0	-8 volts
Cathode Bias Resistor	...	...	...	...	...	-	1,100 ohms
Anode Impedance	...	...	...	...	...	8,000	7,700 ohms
Mutual Conductance	...	...	...	...	...	2.5	2.6 mA/V
Amplification Factor	...	...	...	...	...	20	20

### OPERATION AS RESISTANCE COUPLED AMPLIFIER (Each Section)

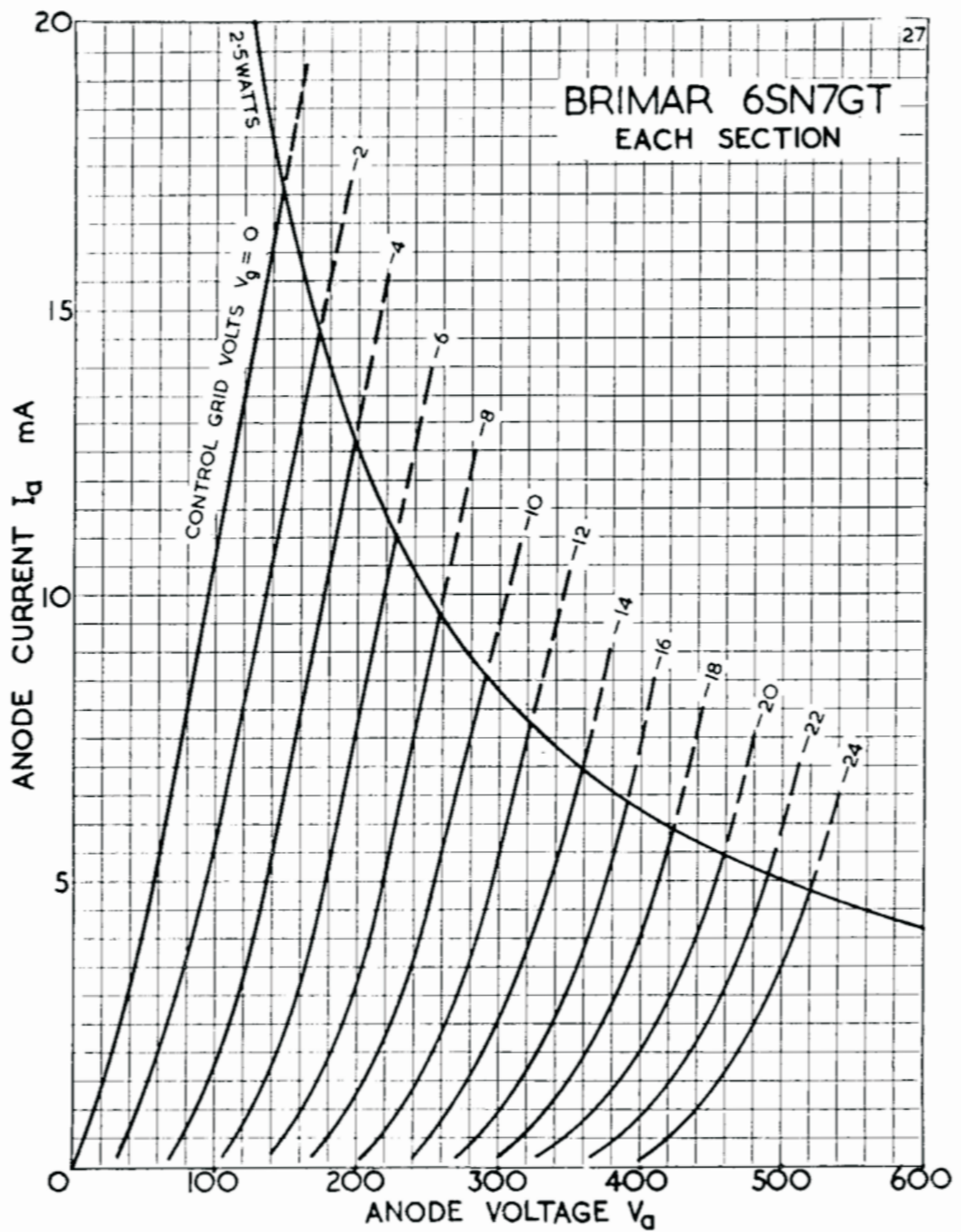
Anode Supply Voltage	...	...	...	100	200	300 volts
Anode Load Resistor	...	...	...	0.05	0.1	0.25 meg.
Cathode Bias Resistor	...	...	...	2,500	3,300	6,000 ohms
Peak Output	...	...	...	17	38	57 volts
Voltage Gain	...	...	...	13	14	14

### INTER-ELECTRODE CAPACITANCES †

					Section (1)	Section (2)
Input	...	...	...	...	2.6	2.6 pF
Output	...	...	...	...	0.8	0.8 pF
Grid to Anode	...	...	...	...	4.0	4.1 pF
Anode 1 to Anode 2	...	...	...	...	0.5	0.5 pF
Grid 1 to Grid 2	...	...	...	...	0.1	0.1 pF
Grid 1 to Anode 2	...	...	...	...	0.2	0.2 pF
Grid 2 to Anode 1	...	...	...	...	0.2	0.2 pF

† With no external shield.

6SN7GT



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