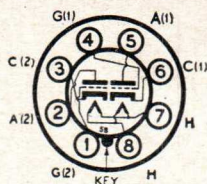


## TYPE 6SN7GT (OCTAL BASE) LOW-MU DOUBLE TRIODE (Separate Cathodes)



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)

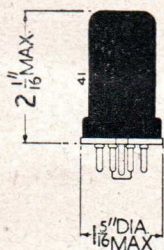
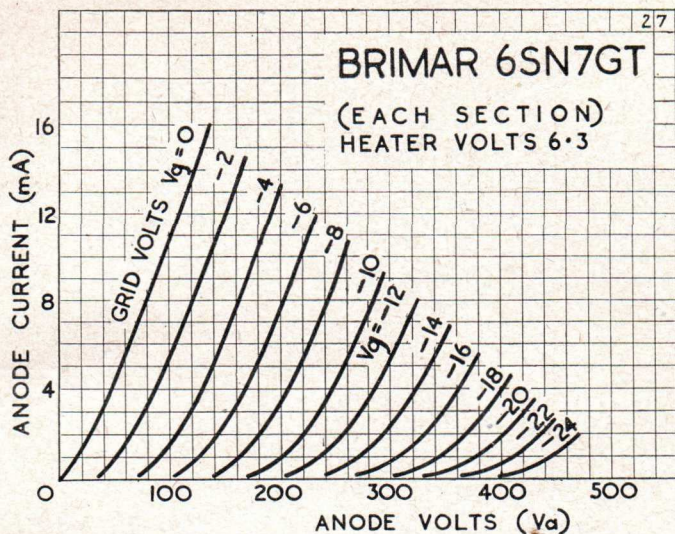
|                       |     |     |     |     |       |            |
|-----------------------|-----|-----|-----|-----|-------|------------|
| Anode Voltage         | ... | ... | ... | ... | 100   | 250 volts  |
| Anode Current         | ... | ... | ... | ... | 10.6  | 9.0 mA     |
| Control Grid Voltage  | ... | ... | ... | ... | 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 (Grid to all except Anode)  | 2.6         | 2.6 pF      |
| Output (Anode to all except Grid) | 0.8         | 0.8 pF      |
| Grid to Anode                     | 4.0         | 4.1 pF      |
| Anode (1) to Anode (2)            | 0.5         | pF          |
| Grid (1) to Grid (2)              | 0.1         | pF          |
| Grid (1) to Anode (2)             | 0.2         | pF          |
| Grid (2) to Anode (1)             | 0.2         | pF          |

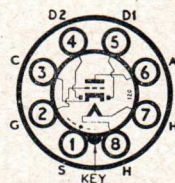


Replacement Type

TYPE **6SQ7**

(OCTAL BASE)

DOUBLE DIODE TRIODE



### CHARACTERISTICS

|                       |     |     |     |     |     |             |
|-----------------------|-----|-----|-----|-----|-----|-------------|
| Heater Voltage        | ... | ... | ... | ... | ... | 6.3 volts   |
| Heater Current        | ... | ... | ... | ... | ... | 0.3 amp.    |
| Anode Voltage         | ... | ... | ... | ... | ... | 250 volts   |
| Anode Current         | ... | ... | ... | ... | ... | 0.9 mA      |
| Control Grid Voltage  | ... | ... | ... | ... | ... | -2 volts    |
| Cathode Bias Resistor | ... | ... | ... | ... | ... | 2,500 ohms  |
| Anode Impedance       | ... | ... | ... | ... | ... | 91,000 ohms |
| Mutual Conductance    | ... | ... | ... | ... | ... | 1.10 mA/V   |
| Amplification Factor  | ... | ... | ... | ... | ... | 100         |