The Brimar type 6BD4 is a special triode for use as a shunt connected E.H.T. voltage regulator in television picture monitors, colour television receivers, etc.

**RATINGS**

- **Heater Voltage**: 6.3 volts
- **Heater Current**: 0.6 amp.
- **Anode Voltage**: 20 kilovolts max.
- **Anode Current**: 1.5 mA max.
- **Anode Dissipation**: 20 watts max.
- **Negative D.C. Grid Voltage**: -125 volts max.
- **Heater-Cathode Voltage**: 180 volts max.

**TYPICAL OPERATING CONDITIONS**

- **Unregulated Supply Voltage**: 29.8 kilovolts
- **Source Impedance**: 8 meghoms
- **Cathode Reference Voltage**: 500 volts
- **Source Impedance**: 1 Kilohm

The Grid is fed from a resistive potentiometer chain, across the unregulated E.H.T. supply as shown in the drawing below:

- **D.C. Output Voltage, load current 0mA**: 20 kilovolts
- **D.C. Output Voltage, load current 1mA**: 19.7 kilovolts

Adequate cooling must be provided for the envelope, free circulation of air, therefore, being necessary.

Anode voltages in excess of 16kv approx. will result in the production of X-rays. Adequate protective shielding of the valve must, therefore, be provided to prevent prolonged exposure to the radiation and thereby avoid any possible harmful effects.

**INTER-ELECTRODE CAPACITANCES**

- **Input**: 3.8 pF
- **Output**: 0.04 pF
- **Anode to Grid**: 1 pF

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