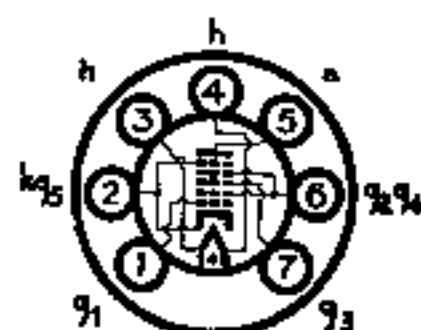


**TYPE 7032**  
**LONG LIFE**  
**GATING HEPTODE**



The BRIMAR 7032 is a long life miniature heptode with short grid base characteristics on grid 1 and grid 3. It is intended for use in computers as a gating amplifier or in variable time delay circuits. The indirectly heated cathode is designed to give good life and reliability when used for long periods under cut-off conditions. The valve is mounted on a B7G base and is of trustworthy construction to ensure satisfactory operation under conditions of vibration and shock.

**RATINGS**

Heater Voltage	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	0.3	amp.
Anode Voltage	...	...	...	...	...	220	volts max.
Anode Dissipation	...	...	...	...	...	1.0	watts max.
Screen Supply Voltage	...	...	...	...	...	150	volts max.
Screen Dissipation	...	...	...	...	...	1.0	watts max.
Grid 3 Voltage: Negative bias value	...	...	...	...	...	100	volts max.
Positive bias value	...	...	...	...	...	0	volts max.
Grid 1 Voltage: Negative bias value	...	...	...	...	...	50	volts max.
Positive bias value	...	...	...	...	...	0	volts max.
D.C. Cathode Current	...	...	...	...	...	18	mA max.
Peak Cathode Current	...	...	...	...	...	60	mA max.
Peak Heater to Cathode Potential	...	...	...	...	...	+90	volts max.
Grid 1 or Grid 3 Circuit resistance: Fixed bias operation	...	...	...	...	...	0.5	MΩ max.
Cathode bias operation	...	...	...	...	...	1.0	MΩ max.

**TYPICAL OPERATION**

	Cut-off Conditions		Zero-bias Condition	
	Grid 1 Control	Grid 3 Control		
Anode Voltage	150	150	150	volts
Screen Voltage	75	75	75	volts
Grid 1 Voltage	-6	0	0	volts
Grid 3 Voltage	0	-6	0	volts
Grid 1 Circuit Resistance	470	470	470	k. ohms
Grid 3 Circuit Resistance	470	470	470	k. ohms
Anode Current	<100 μA	<100 μA	3.5	mA
Screen Current	<300 μA	8.8 mA	6.0	mA
Mutual Conductance (g <sub>1</sub> -a)	—	—	1.4	mA/volt
Mutual Conductance (g <sub>3</sub> -a)	—	—	0.65	mA/volt

**INTER-ELECTRODE CAPACITANCES (measured with external shielding)**

Grid 3 to Anode	0.35 pF max.	Grid 1 to Grid 3	0.15 pF max.
Grid 1 to Anode	0.05 pF max.	Anode to all	12.5 pF
Grid 1 to all	5.8 pF	Heater to Cathode	5.5 pF
Grid 3 to all	8.0 pF		