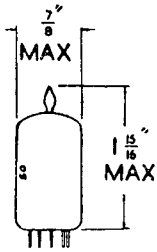
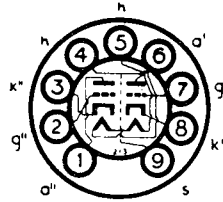


## Current Equipment Type

### TYPE 6BQ7A MINIATURE HIGH SLOPE DOUBLE TRIODE



B9A (Noval) Base



The BRIMAR 6BQ7A consists of two separate high slope triode units designed for use mainly in VHF, cascode amplifiers, but since the internal screen is brought out to a separate base pin the two triode sections may be used independently or in push-pull.

#### RATINGS

Heater Voltage	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	0.4 amp.
Anode Voltage ( $I_a = 0$ )	...	...	...	...	...	300 volts max.
Anode Voltage	...	...	...	...	...	250 volts max.
Anode Dissipation (per section)	...	...	...	...	...	2 watts max.
Cathode Current (per section)	...	...	...	...	...	20mA max.
Heater-Cathode Voltage, Heater negative with respect to Cathode	...	...	...	...	...	200 volts max.†
Heater-Cathode Voltage, Heater positive with respect to Cathode	...	...	...	...	...	200 volts max.
Grid circuit resistance (using cathode bias)	...	...	...	...	...	500 kohms max.

† Under cut-off conditions in cascode circuits this may be 300 V.

#### OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	150 volts
Cathode Bias Resistor	...	...	...	...	...	220 ohms
Anode Current	...	...	...	...	...	9 mA
Mutual Conductance	...	...	...	...	...	6.4 mA/V
Amplification Factor	...	...	...	...	...	39
Anode Resistance	...	...	...	...	...	6,100 ohms

Grid voltage for anode current of 10  $\mu$ A—10 volts approx.

#### INTER-ELECTRODE CAPACITANCES \*

	Triode 1	Triode 2
Grid to Anode	1.15	1.15 pF
Input	2.85	— pF
Input (grounded Grid)	—	4.95 pF
Output	1.35	— pF
Output (grounded Grid)	—	2.27 pF
Anode to Cathode	0.15	0.15 pF max.
Heater to Cathode	2.65	2.70 pF
Anode ' to Anode "	...	0.010 pF max.
Anode " to Anode ' plus Grid '	...	0.024 pF max.

\* Measured with external shield.

