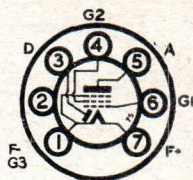


TYPE 1S5 (GLASS BUTTON BASE) MINIATURE BATTERY DIODE—PENTODE



BRIMAR type 1S5 is one of the series of miniature battery valves recently introduced for portable radio equipment. It is designed for use as detector, A.V.C. and audio amplifier valve in superheterodyne receivers. Special care has been taken in the manufacture of type 1S5 to reduce noise and microphony to a low level.

RATINGS

Filament Voltage	...	...	...	...	...	...	1.4 volts
Filament Current	...	...	...	...	...	...	0.05 amp.
Anode Voltage	...	...	...	...	...	...	90 volts max.
Screen (G2) Voltage	...	...	...	...	...	...	90 volts max.
Cathode Current	...	...	...	...	...	...	4.5 mA max.

CHARACTERISTICS

Anode Voltage	...	...	...	...	...	...	67.5 volts
Anode Current	...	...	...	...	...	...	1.6 mA
Screen Voltage	...	...	...	...	...	...	67.5 volts
Screen Current	...	...	...	...	...	...	0.4 mA
Control Grid (G1) Voltage	...	...	...	...	...	...	0 volts*
Mutual Conductance	...	...	...	...	...	...	0.625 mA/V
Anode Impedance	...	...	...	...	...	...	0.4 meg.

RESISTANCE COUPLED OPERATION

Anode and Screen Supply Voltage	...	45	67.5	90	volts
Anode Load Resistor	...	1.0	1.0	1.0	meg.
Screen Series Resistor	...	3.0	3.0	3.0	meg.
Control Grid Resistor	...	10	10	10	meg.*
Peak Output	...	4.5	5.5	10	volts
Voltage gain	...	30	40	50	

* Control grid return taken to negative filament (Pin 1).

INTER-ELECTRODE CAPACITANCES †

Input (Control Grid to all except Anode)	...	...	...	...	2.2 pF
Output (Anode to all except Control Grid)	...	...	...	...	2.4 pF
Control Grid to Anode	...	...	...	...	0.2 pF
Diode to all other electrodes	...	...	...	...	3.0 pF

† With no external shield.

