

TYPE 3S4

MINIATURE BATTERY OUTPUT BEAM TETRODE



B7G Base

BRIMAR type 3S4 completes the range of miniature valves for use in battery receivers and compact portable equipment. The filament is in two sections which may be series or parallel connected. When series connected type 3S4 may be used in conjunction with other valves in the range and the filament operated from a high voltage source where the current is limited to 50 mA. When parallel connected this valve has indentical characteristics to BRIMAR type 1S4 which it supersedes.

| · | | | RATINGS | | |
|----------------------------------|-----|--|-----------------------|----------------------|------------|
| | | | Parallel Filaments | Series Filaments† | |
| Filament Voltage | | | 1.4 | 2.8 | volts |
| Filament Current | | | 0.1 | 0.05 | amp. |
| Anode Voltage | | | 90 | 90 | volts max. |
| Screen (g ₂) Voltage | ••• | | 67.5 | 67.5 | volts max. |
| Cathode Current (no si | | | 9.0 | 4.5†† | mA max. |
| Cathode Current (max. signal) | | | 11.0 | 5.5†† | mA max. |
| | | | | | |

| | | OPER. | ATING | CHARAC | CTERIS | TICS | | |
|------------------|-------|-------|-------|-------------|-------------|-------------|-------|-----------|
| | | | | Parallel | | Series | | |
| | | | | Filaments | | Filament | | |
| Anode Voltage | | | ••• | 67.5 | 90 | 67.5 | 90 | volts |
| Anode Current | | | ••• | 7.2 | 7.4 | 6.0 | 6.1 | mΑ |
| Screen Voltage | | | | 67.5 | 67.5 | 67.5 | 67.5 | volts |
| Screen Current | | | ••• | 1.5 | 1.4 | 1.2 | 1.1 | mΑ |
| Control Grid (g) |) Vol | tage | | -7.0 | -7.0 | -7.0 | -7.0 | volts* |
| Mutual Conducta | • | | | 1.55 | 1.575 | 1.4 | 1.425 | mA/V |
| Anode Impedance | | | | 0.1 | 0.1 | 0.1 | 0.1 | meg. |
| Optimum Load | - | | | 5,000 | 8,000 | 5,000 | 8,000 | ohms |
| Power Output | | | | 0.18 | 0.27 | 0.16 | 0.235 | watts |
| Harmonic Distor | tion | ••• | ••• | 10 | 12 | 12 | 13 | per cent. |

† For series operation of the sections, a shunting resistor must be connected across the section between Pins No. 1 and No. 5 to by-pass any cathode current in excess of the rated maximum per section. When other tubes in series-filament arrangement contribute to the filament current of the 3S4, an additional shunting resistor may be required between Pins 1 and No. 7.

†† Values are for each 1.4 volt section.

* Control grid volts measured from negative filament (Pin 5 in parallel connection, Pin 1 in series connection).

Type 3S4 is a commercial equivalent to the CV820