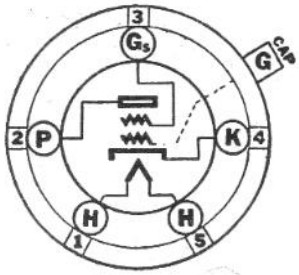
Sylvania

TYPE 24A

SCREEN GRID RF AMPLIFIER



CHARACTERISTICS

Heater Voltage	2.5 Volts
Heater Current	1.75 Amperes

Direct Interelectrode Capacitances:

Grid to Plate (with tube shield)	0.007 $\mu\mu$f Max.
Input	5.3 $\mu\mu$f
Output	10.5 $\mu\mu$f
Maximum Over-all Length	$5\frac{1}{32}$"
Maximum Diameter	$1\frac{13}{16}$"
Bulb	ST-14
Cap	Small Metal
Base—Medium 5-Pin	5-E

Operating Conditions and Characteristics:

Heater Voltage*	2.5	2.5 Volts
Plate Voltage	180	250 Volts
Grid Voltage	−3	−3 Volts
Screen Voltage	90	90 Volts Max.
Plate Current	4	4.0 Ma.
Screen Current	1.7	1.7 Ma. Max.
Plate Resistance	0.4	0.6 Megohm
Mutual Conductance	1000	1050 μmhos
Amplification Factor	400	630

*Recommended practice is to have no potential difference between heater and cathode. If this practice is not followed, the heater may be made negative with respect to the cathode by not more than 45 volts.

CIRCUIT APPLICATION

Sylvania 24A is a screen grid r-f amplifier of the heater-cathode type, having a 2.5 volt heater. It is employed in older designs of radio receivers principally as a radio frequency amplifier; it may also be used as an audio frequency amplifier or screen grid detector.

Improvements in radio tube design and in methods of manufacture have been incorporated in this tube, as well as in all other Sylvania types. The 24A is made primarily as a replacement tube.