



Sylvania  
**TYPE 25B6G**  
**POWER AMPLIFIER**  
**PENTODE**

**CHARACTERISTICS**

Heater Voltage AC or DC . . . . .	25.0	Volts
Heater Current . . . . .	0.30	Ampere
Maximum Over-all Length . . . . .	4 <sup>11</sup> / <sub>16</sub>	"
Maximum Diameter . . . . .	1 <sup>13</sup> / <sub>16</sub>	"
Bulb . . . . .	ST-14	
Base—Medium Octal 7-Pin . . . . .	7-S	

Pin No. 1, although present, is not utilized.

**Operating Conditions and Characteristics:**

CLASS A AMPLIFIER

Heater Voltage . . . . .	25.0	Volts
Plate Voltage . . . . .	95	Volts
Screen Voltage . . . . .	95	Volts
Grid Voltage . . . . .	-15	Volts
Plate Current . . . . .	45	Ma.
Screen Current* . . . . .	4	Ma.
Screen Current† . . . . .	12	Ma.
Plate Resistance . . . . .	Subject to considerable variation	
Mutual Conductance . . . . .	4000	μmhos
Load Resistance . . . . .	2000	Ohms
Power Output . . . . .	1.75	Watts
Total Harmonic Distortion . . . . .	10	Per Cent

\*No Signal.

†Maximum Signal.

**CIRCUIT APPLICATION**

Sylvania Type 25B6G is a new power amplifier pentode and, like Types 25A6G and 43, is especially suitable for use in the output stage of universal AC-DC and d-c radio receivers. The operating voltages are the same as those employed for the 95-volt operation of Types 25A6G and 43 but considerable differences exist in the tube characteristics.

In cases where resistance coupling is employed for Type 25B6G the grid resistor value should not exceed 0.25 megohm when self-biased, or 0.1 megohm with fixed bias.