

SYLVANIA  
25C6G

# Hygrade Sylvania

CORPORATION

181

TECHNICAL DATA  
SYLVANIA TYPE 25C6G

Beam Power Amplifier

CHARACTERISTICS

Heater Voltage AC or DC	25.0	Volts
Heater Current	0.3	Ampere
Maximum Plate Voltage	200	Volts
Maximum Screen Voltage	135	Volts
Maximum Plate Dissipation	12.5	Watts
Maximum Screen Dissipation	1.75	Watts

OPERATING CONDITIONS AND CHARACTERISTICS

Class A<sub>1</sub> Amplifier

Heater Voltage	25	25	Volts
Plate Voltage	135	200	Volts
Screen Voltage	135	135	Volts
Grid Voltage	-13.5	-14	Volts
Peak A-F Grid Voltage	13.5	14	Volts
Plate Current (zero signal)	58	61	Ma.
Plate Current (maximum signal)	60	66	Ma.
Screen Current (zero signal)	3.5	2.2	Ma.
Screen Current (maximum signal)	11.5	9	Ma.
Mutual Conductance	7000	7100	μmhos
Plate Resistance (approx.)	9300	18300	Ohms
Load Resistance	2000	2600	Ohms
Power Output	3.6	6.0	Watts
Total Harmonic Distortion	10	10	Per Cent

Note: For household receivers, ratings marked maximum are design centers for a line voltage of 117 volts.

CIRCUIT APPLICATION

Sylvania Type 25C6G is a beam power amplifier tube with electrical characteristics similar to Type 6Y6G except that the heater is rated at 25 volts and 0.3 ampere.

If fixed bias is employed the grid circuit resistance should not exceed 0.1 megohm. With cathode bias the maximum value of grid resistor is 0.5 megohm. The potential difference between the heater and cathode should be kept as low as possible.

It is recommended that the tube be mounted in a vertical position. Horizontal operation is permitted provided pins 2 and 4 are in a vertical plane.

Type 25C6G embodies the same general principles of design as those incorporated in tubes like the 6L6G and 6V6G.

