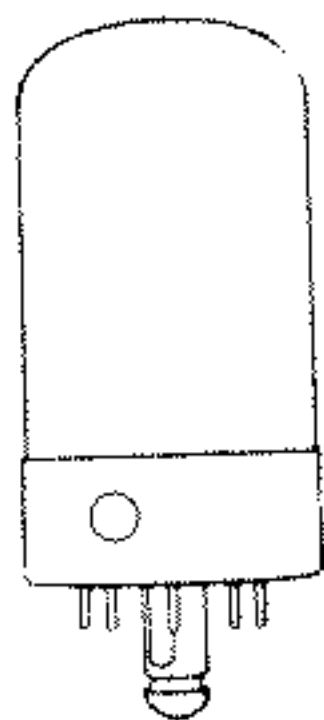
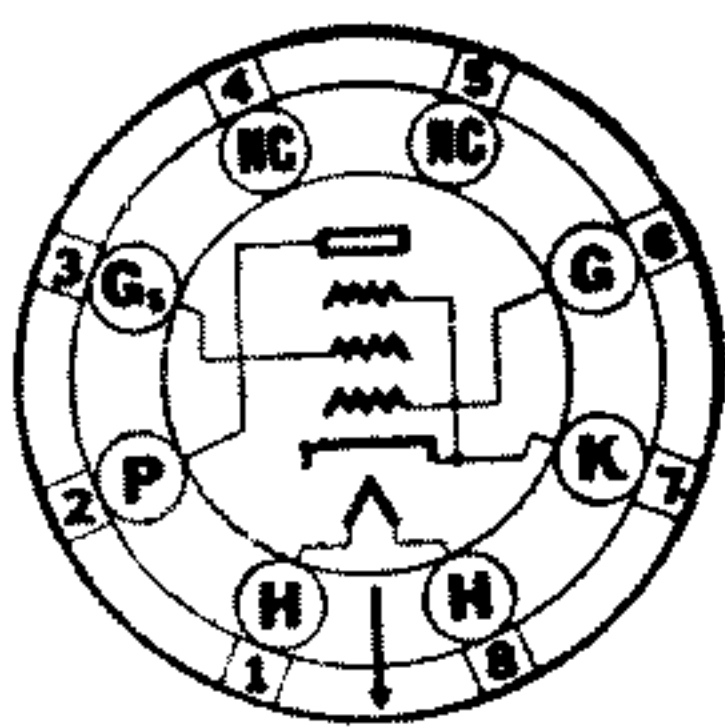


# Sylvania Type 7B5

POWER OUTPUT PENTODE

GT EQUIVALENT 6K6GT



6AE-L-0

## PHYSICAL SPECIFICATIONS

Base.....	Lock-In 8 Pin
Bulb.....	T-9
Maximum Overall Length.....	3 <sup>5</sup> / <sub>32</sub> "
Maximum Seated Height.....	2 <sup>5</sup> / <sub>8</sub> "
Mounting Position.....	Any

## RATINGS

Heater Voltage AC or DC (Nominal).....	7.0 Volts
Heater Current.....	0.43 Ampere
Maximum Plate Voltage.....	315 Volts
Maximum Screen Voltage.....	285 Volts
Maximum Plate Dissipation.....	8.5 Watts
Maximum Screen Dissipation.....	2.8 Watts
Maximum Heater-Cathode Voltage.....	90 Volts

### Direct Interelectrode Capacitances:\*

Grid to Plate.....	0.8 $\mu$ f.
Input.....	7.4 $\mu$ f.
Output.....	8.0 $\mu$ f.

\*With 1<sup>5</sup>/<sub>16</sub>" diameter shield (RMA Std. M8-308) connected to cathode.

## TYPICAL OPERATION

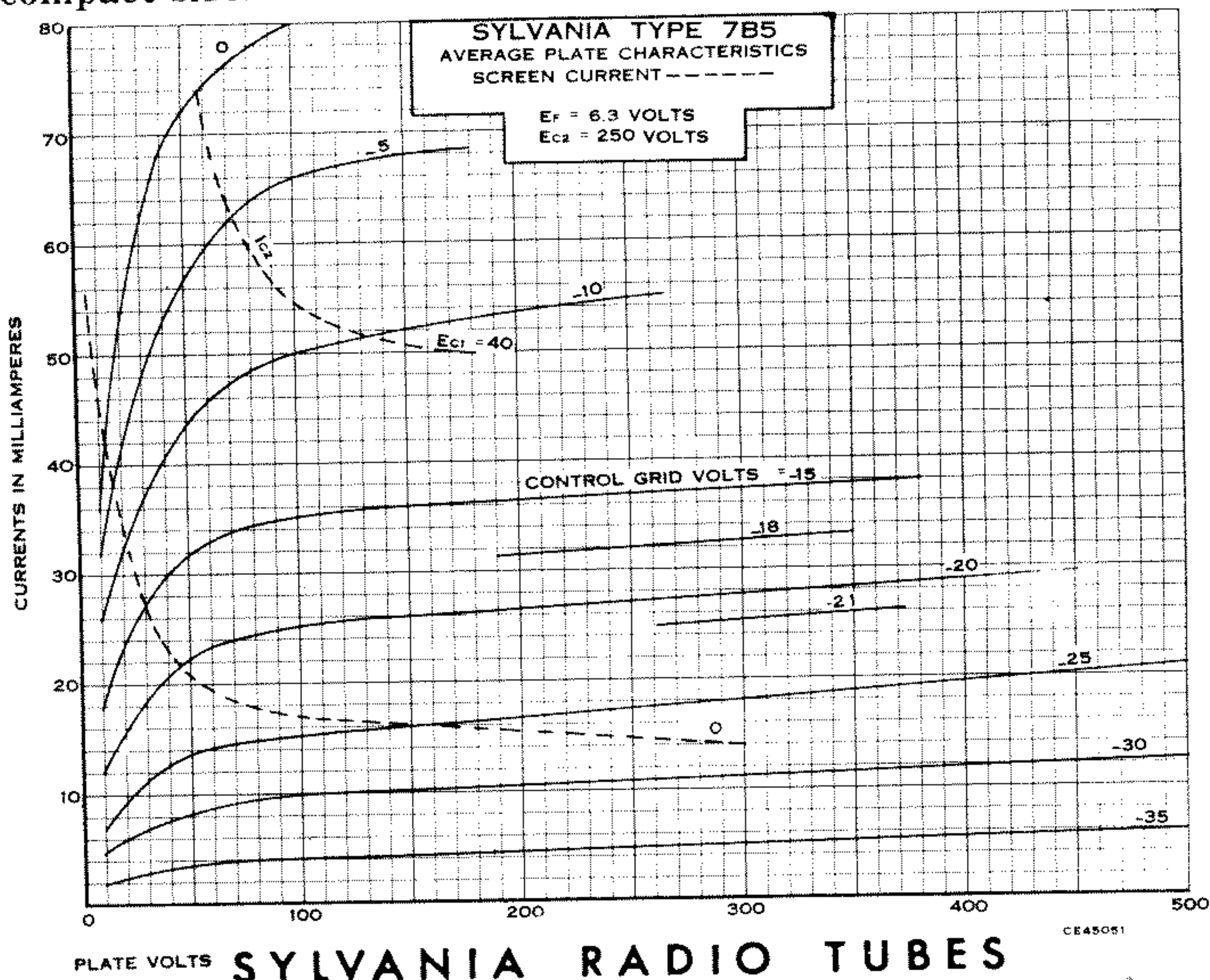
### SINGLE-TUBE CLASS A<sub>1</sub> AMPLIFIER

Heater Voltage.....	6.3	6.3	6.3 Volts
Heater Current.....	0.4	0.4	0.4 Ampere
Plate Voltage.....	100	250	315 Volts
Screen Voltage.....	100	250	250 Volts
Grid Voltage §.....	-7.0	-18	-21 Volts
Self-Bias Resistor.....	650	500	700 Ohms
Peak Signal Voltage.....	7.0	18	21 Volts
Plate Current (Zero Signal).....	9.0	32.0	25.0 Ma.
Plate Current (Maximum Signal).....	9.0	33.0	28.0 Ma.
Screen Current (Zero Signal).....	1.6	5.5	4.0 Ma.
Screen Current (Maximum Signal).....	3.0	10.0	9.0 Ma.
Plate Resistance (Approximate).....	104000	68000	75000 Ohms
Mutual Conductance.....	1500	2300	2100 $\mu$ mhos
Load Resistance.....	12000	7600	9000 Ohms
Power Output.....	0.35	3.4	4.5 Watts
Total Harmonic Distortion.....	11	11	15 Per Cent

§The DC resistance in the grid circuit should not exceed 0.5 Meg.

## APPLICATION

Sylvania Type 7B5 is a power output pentode of lock-in design. It is suitable for use in automobile and A-C operated receivers with the lock-in design providing ruggedness and compact size.



# 7B5 (Cont.)

