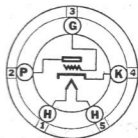


Sylvania

TYPE 56

DETECTOR AMPLIFIER



CHARACTERISTICS

Heater Voltage AC or DC	2.5 Volts
Heater Current	1.0 Ampere

Direct Interelectrode Capacitances:

Grid to Plate	3.2 $\mu\mu\text{f}$
Input	3.2 $\mu\mu\text{f}$
Output	2.2 $\mu\mu\text{f}$
Maximum Over-all Length	4 1/4"
Maximum Diameter	1 1/8"
Bulb	ST-12
Base—Small 5-Pin	5-A

Operating Conditions and Characteristics:

Heater Voltage	2.5	2.5 Volts
Plate Voltage	100	250 Volts
Grid Voltage	-5	-13.5 Volts
Plate Current	2.5	5 Ma.
Plate Resistance	12000	9500 Ohms
Mutual Conductance	1150	1450 μmhos
Amplification Factor	13.8	13.8

BIASED DETECTOR

Heater Voltage	2.5	2.5 Volts
Plate Voltage	100	250 Volts Max.
Grid Voltage	-8	-20 Volts Approx.
Plate Current	Adjust to 0.2 ma. with no a-c input signal	

GRID LEAK DETECTOR

Heater Voltage	2.5 Volts
Plate Voltage	45 Volts
Grid Leak	1 to 5 Megohms
Grid Condenser	0.00025 μf

CIRCUIT APPLICATION

Sylvania 56 is a general purpose tube designed for use as an amplifier or detector. It is a heater type tube with a heater current rating of 1.0 ampere at 2.5 volts. In characteristics the tube is almost identical with Sylvania Type 76 except for heater rating.

For detailed circuit application refer to the discussion given on Type 76.