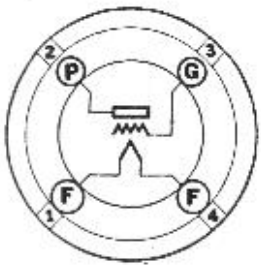
Sylvania

TYPE 01A

DETECTOR AMPLIFIER



CHARACTERISTICS

Filament Voltage DC	5.0 Volts
Filament Current	0.25 Ampere

Direct Interelectrode Capacitances:

Grid to Plate	7.5 μμf
Input	2.6 μμf
Output	2.0 μμf

Maximum Over-all Length	$4\frac{11}{16}$"
Maximum Diameter	$1\frac{13}{16}$"
Bulb	ST-14
Base—Medium 4-Pin	4-D

Operating Conditions and Characteristics:

Filament Voltage	5.0	5.0	Volts
Plate Voltage	90	135	Volts
Grid Voltage	−4.5	−9.0	Volts
Plate Current	2.5	3.0	Ma.
Plate Resistance	11000	10000	Ohms
Mutual Conductance	725	800	μmhos
Amplification Factor	8	8	

CIRCUIT APPLICATION

Sylvania 01A is a general purpose tube of the triode type for use in battery operated receivers. The filament is rated at 5 volts, 0.25 ampere.

This tube may be employed as a detector. It is not critical as regards plate voltage. The grid return may be connected to either the negative or positive filament terminal when the tube is used as a grid leak detector. Usually somewhat greater sensitivity will be obtained by returning to the negative side of the filament. When employed as an amplifier the return should be made to the negative side of the filament.

The 01A was one of the first tubes to be widely used as a radio frequency amplifier, giving higher gain than other comparable types. It is now used primarily for replacement of tubes in old receivers. The usual voltages which are employed for this purpose are 67.5 volts on the plate and zero bias.

When the 01A tube is used for audio frequency amplification, very satisfactory reproduction can be obtained providing good audio transformers are employed. More amplification is obtainable by this method than is possible by using resistance or impedance coupling.