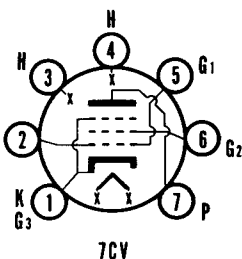




# SYLVANIA TYPE 34GD5A



## MECHANICAL DATA

Bulb	T-5 1/2
Base	E7-1, Miniature Button 7-Pin
Outline	5-3
Basing	7CV
Cathode	Coated Unipotential
Mounting Position	Any

## ELECTRICAL DATA

### HEATER CHARACTERISTICS

Average Characteristics	Series Operation
Heater Voltage	34 Volts
Heater Current	100 Ma
Heater Warm-up Time	20 Seconds
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total D C and Peak	200 Volts
Heater Positive with Respect to Cathode	
D C	100 Volts
Total D C and Peak	200 Volts

### DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	0.6 $\mu\mu\text{f}$
Input: g1 to (h+k+g2+g3)	12 $\mu\mu\text{f}$
Output: p to (h+k+g2+g3)	9.0 $\mu\mu\text{f}$

### RATINGS (Design Maximum System)

Plate Voltage	150 Volts Max.
Grid No. 2 Voltage	130 Volts Max.
Plate Dissipation	5.0 Watts Max.
Grid No. 2 Dissipation	1.1 Watts Max.
Grid No. 1 Circuit Resistance	
Fixed Bias	0.1 Megohm Max.
Cathode Bias	0.5 Megohm Max.

### CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier	
Plate Voltage	110 Volts
Grid No. 2 Voltage	110 Volts
Grid No. 1 Voltage	-7.5 Volts
Peak AF Grid No. 1 Voltage	7.5 Volts
Zero-Signal Plate Current	35 Ma
Zero-Signal Grid No. 2 Current	3.0 Ma
Transconductance	5700 $\mu\text{mhos}$
Plate Resistance (approx.)	13,000 Ohms
Load Resistance	2500 Ohms
Maximum-Signal Power Output	1.4 Watts
Total Harmonic Distortion (approx.)	10 Percent

## APPLICATION

The Sylvania Type 34GD5A is a miniature beam power pentode designed for service as an audio output amplifier. It features high efficiency at relatively low plate and Grid No. 2 voltages.

Type 34GD5A, designed for use in AC/DC radio receivers, incorporates a 100 Ma heater controlled for heater warm-up time. Type 34GD5A replaces obsolete Type 34GD5.