SYLVANIA TYPE 34GD5A

MECHANICAL DATA
Bulb ............................................. T-5½
Base ............................................. E7-1: Miniature Button 7-Pin
Outline .......................................... 5-3
Baking ........................................... 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 µuf
Input: g1 to (h+k+g2+g3) ................................ 12 µuf
Output: p to (h+k+g2+g3) ............................... 9.0 µuf

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 µmhos
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.

SYLVANIA ELECTRONIC TUBES
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