MECHANICAL DATA

Bulb ........................................ T-5 3/4
Base ......................................... E7-1, Miniature Button 7-Pin
Outline ...................................... 5-2
Basing ....................................... 7BF
Cathode ..................................... Unipotential
Mounting Position ......................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ................................ 6.3 Volts
Heater Current .................................. 450 Ma
Heater-Cathode Voltage (Absolute Values)
  Heater Negative with Respect to Cathode .... 90 Volts Max.
  Heater Positive with Respect to Cathode ...... 90 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES
(Unshielded—Approx.) Each Unit

Grid to Plate .................................. 1.3 µf
Grid to Cathode and Heater ..................... 2.1 µf
Plate to Cathode and Heater ..................... 0.4 µf
Grid of Unit No. 1 to Grid of Unit No. 2 .... 0.4 µf Max.

RATINGS (Absolute Values)—Each Unit

Plate Voltage .................................. 250 Volts Max.
Grid Voltage
  Negative Bias Value ......................... 100 Volts Max.
  Positive Bias Value ......................... 0 Volts Max.
  Peak Negative Value ....................... 200 Volts Max.
Plate Dissipation ................................ 1.5 Watts Max.
Grid Input ..................................... 0.1 Watt Max.
DC Cathode Current¹ ........................... 15 Ma Max.
Peak Cathode Current¹ ....................... 75 Ma Max.
Grid Circuit Resistance
  Fixed Bias ................................... 0.5 Megohm Max.
  Self Bias .................................. 1.0 Megohm Max.
Bulb Temperature (Hottest Point on Bulb Surface) .... 150° C Max.

CHARACTERISTICS AND TYPICAL OPERATION

Each Unit, With Both Units Operating

Plate Voltage .................................. 100 Volts
Cathode Bias Resistor² ........................ 50 Ohms
Amplification Factor .......................... 39
Plate Resistance ................................ 6500 Ohms
Transconductance .............................. 6000 µmhos
Plate Current .................................. 9.5 Ma

The Sylvania Type 5964 is a miniature medium-mu dual triode having a common cathode. The type is designed for long life computer service.
**Computer Service**

<table>
<thead>
<tr>
<th></th>
<th>Cutoff Condition</th>
<th>Zero Bias Condition</th>
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<tbody>
<tr>
<td>Plate Supply Voltage</td>
<td>150</td>
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<tr>
<td>Plate Circuit Resistance</td>
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<td>Grid Supply Voltage</td>
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<td>Grid Circuit Resistance</td>
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<tr>
<td>Plate Current</td>
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<td>5 Ma</td>
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</tbody>
</table>

**NOTES:**

1. *With both units operating, the dc cathode current should not exceed 30 milliamperes and the peak cathode current should not exceed 150 milliamperes.*

2. *Common to both units.*
AVERAGE PLATE CHARACTERISTICS