The Type 6BF7A is a subminiature medium-mu double triode, designed for service where severe conditions of mechanical shock and vibration are encountered.

### MECHANICAL DATA ###

**GENERAL**

- **Style**: subminiature
- **Cathode**: coated uni-potential
- **Bulb**: EB-10, Subminiature Button
- **Base**: T-3 Flexible Leads
- **Connections**: 3-2
- **Basing**: 8DG

<table>
<thead>
<tr>
<th>Lead</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>#2 plate</td>
</tr>
<tr>
<td>2</td>
<td>#2 grid</td>
</tr>
<tr>
<td>3</td>
<td>heater</td>
</tr>
<tr>
<td>4</td>
<td>#2 cathode</td>
</tr>
<tr>
<td>5</td>
<td>#1 cathode</td>
</tr>
<tr>
<td>6</td>
<td>heater</td>
</tr>
<tr>
<td>7</td>
<td>#1 grid</td>
</tr>
<tr>
<td>8</td>
<td>plate</td>
</tr>
</tbody>
</table>

**RATINGS (1)**

- Maximum Diameter: 0.400 inch
- Maximum Overall Bulb Length: 1.500 inches
- Minimum Lead Length: 1.500 inches
- Mounting Position: any

### ELECTRICAL DATA ###

**GENERAL**

- Heater Voltage (ac or dc): 6.3 volts
- Heater Current: 300 ma

**Direct Interelectrode Capacitances**

- Grid to Plate: Unshielded 1.5 μf, Shielded 1.5 μf
- Input: Unshielded 2.0 μf, Shielded 2.0 μf
- Output: Unshielded 0.28 μf, Shielded 1.6 μf
- Grid to Grid: Unshielded 0.30 μf, Shielded 2.0 μf
- Plate to Plate: Unshielded 0.009 μf, Shielded 0.008 μf

**RATINGS (1)-Absolute Values**

- Heater Voltage: 6.3(±10%) volts
- Maximum Plate Voltage (dc): 120 volts
- Maximum Plate Dissipation: 1.1 watts (each section)
- Maximum Heater-Cathode Voltage: ±200 volts

**CHARACTERISTICS**

- Conditions:
  - Heater Voltage: 6.3 volts
  - Plate Voltage (dc): 100 volts
  - Plate Current: 8 ma
  - Transconductance: 4,800 μmhos
  - Amplification Factor: 35

- Grid Voltage for 10 μa: Plate Current: -7.5 volts
- Noise Output Voltage: 100 mv

**Notes**

1. Limitations beyond which normal tube performance and tube life may be impaired.
2. Forces in any direction as applied by the Navy Type High-Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.
3. Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.
4. With external shield of 0.405 inch diameter connected to cathode of section under test.
5. Across plate resistor of 2,000 ohms, with applied vibrational acceleration of 15 g at 40 cycles per second, sections tied in parallel.

10/17/52

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1740 Broadway New York 19, New York

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