EL34B Tung-Sol

Pin # | Electrode name
--- | ---
1 | Grid 3
2,7 | Heater
3 | Plate
4 | Grid 2
5 | Grid 1
6 | -
8 | Cathode

Electrical data

- **Cathode**: Oxide, indirect heating
- **Heater voltage (AC/DC)**: 6.3 v
- **Heater current**: 1.5 a
- **Cathode to heater voltage**: +/-100 v
- **Interelectrode capacitance:**
  - Input (nominal): 15.4 uf
  - Output (nominal): 8.4 uf
  - Transfer (nominal): 1.1 uf

Mechanical data

- **Envelope**: Glass balloon, 8pin
- **Socket**: octal
- **Operating position**: Any
- **Dimensions:**
  - Maximum height: 110 mm
  - Balloon diameter: 31 mm
  - Maximum weight: 60 g

Typical operation

- **Plate voltage**: 250 v
- **2nd grid voltage**: 265 v
- **1st grid voltage**: -13.5 v
- **Plate current (nominal)**: 100 ma
- **2nd grid current (nominal)**: 12 ma
- **Transconductance (nominal)**: 12 ma/v
- **Load resistance**: 2000 ohm
- **Output power (nominal)**: 11 w
- **Non-linear distortion factor (nominal)**: 9%

Limited values

<table>
<thead>
<tr>
<th>Parameter</th>
<th>min</th>
<th>max</th>
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</thead>
<tbody>
<tr>
<td>Heater voltage</td>
<td>5.5 v</td>
<td>7.0 v</td>
</tr>
<tr>
<td>Plate voltage</td>
<td>800 v</td>
<td>150 ma</td>
</tr>
<tr>
<td>2nd grid voltage</td>
<td>425 v</td>
<td>25 w</td>
</tr>
<tr>
<td>1st grid reverse voltage</td>
<td>-100 v</td>
<td>8 w</td>
</tr>
<tr>
<td>Cathode current</td>
<td>150 ma</td>
<td>Balloon temperature at hottest point</td>
</tr>
<tr>
<td>Plate dissipation power</td>
<td>25 w</td>
<td>250° C</td>
</tr>
<tr>
<td>2nd grid dissipation power</td>
<td>8 w</td>
<td>Grid circuit resistance</td>
</tr>
<tr>
<td>Balloon temperature at hottest point</td>
<td>250° C</td>
<td>Under fixed bias</td>
</tr>
<tr>
<td>Grid circuit resistance</td>
<td>0.5 mohm</td>
<td>Under automatic bias</td>
</tr>
<tr>
<td>Under fixed bias</td>
<td>0.5 mohm</td>
<td>0.7 mohm</td>
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</tbody>
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