HALF-WAVE HIGH-VACUUM RECTIFIER

Physical Specifications
- Cathode: Coated unipotential
- Base: Small button noval 9-pin
- Bulb: T6 1/2
- Maximum overall length: 3 1/16"
- Maximum seated height: 2 13/16"
- Bulb length excluding tip: 2 7/16" ± 3/32"
- Maximum diameter: 7/8"
- Mounting position: any
- Basing connections - JETEC basing designation: 9BM

Pin 1 - Internally connected
Pin 2 - Internally connected
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Internally connected
Pin 7 - Internally connected
Pin 8 - Internally connected
Pin 9 - Plate

General Electrical Data
- Heater voltage: 19 volts
- Heater current: 300 ma

Maximum Ratings
- Peak inverse plate voltage: 700 volts
- D.C. output current: 180 ma
- Filter input capacitor: 60 μF
- Heater-cathode voltage (peak value, cathode positive with respect to heater): 550 volts
- D.C. component of heater-cathode voltage: 250 volts

6.6.1951

N.V.PHILIPS'GLOBILAMPENFABRIKEN, Eindhoven, Holland.
Maximum Ratings (continued)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.C. component of heater-cathode voltage</td>
<td>220 volts</td>
</tr>
<tr>
<td>(rms)</td>
<td></td>
</tr>
<tr>
<td>A.C. input voltage</td>
<td>250 240 220 200 127 volts</td>
</tr>
<tr>
<td>(rms)</td>
<td></td>
</tr>
<tr>
<td>Total effective plate supply impedance</td>
<td>100 80 40 30 0 ohms</td>
</tr>
<tr>
<td>(min)</td>
<td></td>
</tr>
</tbody>
</table>

Operating Conditions

<table>
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<th>Value</th>
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<td>A.C. input voltage</td>
<td>250 240 220 200 127 volts</td>
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<tr>
<td>Filter input capacitor</td>
<td>60 60 60 60 60 μF</td>
</tr>
<tr>
<td>Total effective plate supply impedance</td>
<td>125 105 65 30 0 ohms</td>
</tr>
<tr>
<td>D.C. output current</td>
<td>180 180 180 180 ma</td>
</tr>
<tr>
<td>D.C. output voltage</td>
<td>195 195 195 195 127 volts</td>
</tr>
</tbody>
</table>

Note 1. When two tubes are connected in parallel, the maximum value of the capacitor may be increased to 100 μF. In this case each plate must have the minimum total effective supply impedance specified above.
1: Input r.m.s. voltage = 250 volts; \( R_t = 125 \Omega; C_{inp} = 60 \mu F 
2: Input r.m.s. voltage = 240 volts; \( R_t = 105 \Omega; C_{inp} = 60 \mu F 
3: Input r.m.s. voltage = 220 volts; \( R_t = 65 \Omega; C_{inp} = 60 \mu F 
4: Input r.m.s. voltage = 200 volts; \( R_t = 30 \Omega; C_{inp} = 60 \mu F 
5: Input r.m.s. voltage = 127 volts; \( R_t = 0 \Omega; C_{inp} = 60 \mu F 

D.C. output current (milli-amps)