VALVE TYPE 3B/100-B

TRIODE.

SPECIFICATION.

Cathode.
Indirectly heated oxide coated.
Constant voltage type.

Base.
Standard British 5-pin.

Dimensions.
Maximum overall length 4 11/16" (11.9 cms.)
Bulb diameter 1.77" (4.5 cms.)
Net weight 0.11 lbs. (50 gms.)

Constants.
Heater voltage 4 volts
Heater current 1.1 amps.
*Amplification factor 13
*Impedance 2,000 ohms.
*Mutual conductance 6.5 mA per volt
Grid–anode capacity 7.5 \( \mu \)F.
Grid–cathode capacity 10.3 \( \mu \)F.
Anode–cathode capacity 4.8 \( \mu \)F.

* at \( V_p = 200 \), \( V_g1 = -10 \) volts.

LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage 200 volts
Maximum direct anode current 50 mA.
Maximum anode dissipation 10 watts

Tentative Data

W.3B/100-B.1
Feb. 1939
## TYPICAL OPERATING CONDITIONS.

<table>
<thead>
<tr>
<th>Anode Voltage volts</th>
<th>Grid Bias volts</th>
<th>Anode Current mA.</th>
<th>Load Resistance ohms</th>
<th>Power Output mW.</th>
<th>Total Harmonics db.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>-4</td>
<td>23</td>
<td>8,000</td>
<td>10</td>
<td>38</td>
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<tr>
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</tbody>
</table>

![Graph showing the relationship between anode voltage and current](image-url)