CBS 6830 - 6831

GASEOUS VOLTAGE REGULATORS

Constructed with flying leads which eliminate the need for a socket, the CBS types 6830 and 6831 are gaseous voltage regulators that can be used where wired-in terminals are desired. Encased in miniature envelopes, these units are especially suitable for packaging where compactness and light weight are prime objectives.

MECHANICAL DATA

Cathode Cold
Maximum diameter 3/4 inch
Maximum over-all length 6 1/2 inches
Maximum bulb length 2 3/8 inches
Bulb T-5 1/2
Base Miniature glass button with flying leads
Basing 2AV
Mounting position Any
Terminals
  Lead 1, red code Anode
  Lead 2, black code Cathode

from JETEC release #1566, Jan. 9, 1956
ELECTRICAL DATA

MAXIMUM RATINGS (Absolute Values)

Voltage Regulator Service

| Cathode current maximum, d-c | 30 ma |
| Cathode current minimum, d-c | 5 ma  |

CHARACTERISTICS AND TYPICAL OPERATION

Voltage Regulator Service

<table>
<thead>
<tr>
<th>6830</th>
<th>6831</th>
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</thead>
<tbody>
<tr>
<td>Anode supply voltage minimum, d-c</td>
<td>185 133 volts</td>
</tr>
<tr>
<td>Anode breakdown voltage (normal ambient light) max.</td>
<td>185 133 volts</td>
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<tr>
<td>Operating voltage, avg.</td>
<td>150 108 volts</td>
</tr>
<tr>
<td>Regulation (5-30 ma)* avg.</td>
<td>2.0 1.0 volts</td>
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</tbody>
</table>

*Regulation is defined as the maximum allowable difference in tube voltage drop measured between the two current points within the tube's current rating range (5-30 ma) which indicate the largest difference in tube drops.

TYPICAL OPERATION CHARACTERISTICS

[Graphs showing average starting potential vs. current for CBS 6830 and CBS 6831]