OD3

VOLTAGE REGULATOR
GLOW-DISCHARGE TYPE

GENERAL DATA

Electrical:
Cathode ............................................ Cold

Mechanical:
Mounting Position .................................. Any
Maximum Overall Length......................... 4-1/8"
Seated Length .................................. 3-3/8" ± 3/16"
Maximum Diameter ................................ 1-9/16"
Dimensional Outline .................. See General Section
Weight (Approx.) ........................................ 1.3 oz
Bulb .................................................. ST-12
Base ........................................ Small-Shell Octal 6-Pin (JETEC No. B6-3)
Basing Designation for BOTTOM VIEW................. 4AJ

Pin 1 - No Connection
Pin 2 - Cathode
Pin 3 - Jumper
Pin 5 - Anode
Pin 7 - Jumper
Pin 8 - No Connection

Maximum and Minimum Ratings, Absolute Values:
AVERAGE STARTING CURRENT* .................. 100 max. ma
DC CATHODE CURRENT.......................... 40 max. ma
\[ 5 \text{ min. ma} \]
FREQUENCY ........................................ 0 max. cps
AMBIENT-TEMPERATURE RANGE.................. -55 to +90 °C

Circuit Values:
Shunt Capacitor ................................... 0.1 max. µf
Series Resistor ....................................... See note below

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Av.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Anode-Supply Voltage</td>
<td>185*</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Anode Breakdown Voltage</td>
<td>160</td>
<td>185*</td>
<td>volts</td>
</tr>
<tr>
<td>Anode Voltage Drop</td>
<td>142*</td>
<td>153</td>
<td>165*</td>
</tr>
<tr>
<td>Regulation (5 to 40 ma)</td>
<td>4</td>
<td>5.5*</td>
<td>volts</td>
</tr>
</tbody>
</table>

* With suitable socket connections, jumper within base acts as a switch to open power-supply circuit when voltage regulator tube is removed from socket.

* Averaged over starting period not exceeding 10 seconds. This starting period must be followed by a steady state operating condition of at least 20 minutes, or tube performance will be impaired.

* Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.

* Maximum individual tube value during useful life.

* Minimum individual tube value during useful life.

The operating considerations and circuit information shown under Type OA3 also apply to Type OD3

- Indicates a change.

4-56
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