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. 86-3)
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
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>Min.</th>
<th>Av.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Anode-Supply Voltage</td>
<td>133*</td>
<td>—</td>
</tr>
<tr>
<td>Anode Breakdown Voltage</td>
<td>—</td>
<td>115</td>
</tr>
<tr>
<td>Anode Voltage Drop</td>
<td>103*</td>
<td>108</td>
</tr>
<tr>
<td>Regulation (5 to 40 ma)</td>
<td>—</td>
<td>2</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 0A3 also apply to Type OC3

†† Indicates a change.