**VOLTAGE REGULATOR**

**MINIATURE GLOW-DISCHARGE TYPE**

*Intended for applications where very stable characteristics and dependable performance under shock and vibration are paramount. The 6074 is a "premium" version of the 0872.*

### DATA

**General:**
- Cathode: Cold

**Mechanical:**
- Mounting Position: Any
- Maximum Overall Length: 2-5/8"
- Maximum Seated Length: 2-3/8"
- Length, Base Seat to Bulb Top (Excluding tip): 2" ± 3/32"
- Maximum Diameter: 3/4"
- Bulb: T-5-1/2
- Base: Small-Button Miniature 7-Pin (JETEC No. E7-1)
- Basing Designation for BOTTOM VIEW: 5BQ

### Pin Diagram

![Pin Diagram](image)

- Pin 1 - Anode
- Pin 2 - Cathode
- Pin 3 - Internal Connection
- Pin 4 - Cathode
- Pin 5 - Anode
- Pin 6 - Internal Connection
- Pin 7 - Cathode

### Maximum Ratings, Absolute Values:

- AVERAGE STARTING CURRENT (See note below): 75 max. ma
- DC CATHODE CURRENT: 30 max. ma
- AMBIENT TEMPERATURE RANGE: -55 to +90 °C
- FREQUENCY: 0 max. cps

### 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>133A</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Anode Breakdown Voltage</td>
<td>-</td>
<td>115</td>
<td>135</td>
</tr>
<tr>
<td>Anode Voltage Drop</td>
<td>101A</td>
<td>108</td>
<td>114</td>
</tr>
<tr>
<td>Regulation (5 to 30 ma)</td>
<td>-</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

### Circuit Values:

- Shunt Capacitor: - - 0.1 μf
- Series Resistor: - See note below

### Note:

The notes and circuit information shown under Type 042 are also applicable to the 6074.

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**MAY 1, 1952**

**TUBE DEPARTMENT**

**TENTATIVE DATA**

**RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY**

*1, 2, 3: See next page.*
Shock and Vibration Tests:
These tests are made as indicated in the JAN Specifications JAN 1-A for Electron Tubes, May, 1946 under the sections as follows:

Section F-6a (9e) Shock Test:
Instantaneous Impact Acceleration . . . . 900 max. \( g \)

Section F-6b (9f) Vibration Test:
Vibrational Acceleration . . . . . . . . . . . 2.5 max. \( g \)

\( \text{\#} \) Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.
\( \text{\#} \) Maximum individual tube value during life.
\( \text{\#} \) Minimum individual tube value during life.