Cold-Cathode
Voltage-Stabiliser

Code: VR105/30 (CV686)←

The VR105/30 is a cold-cathode, gas-filled, voltage-stabiliser for use in industrial and radio equipment where a stable source of voltage is required. It is equivalent to the U.S.A. OC3 type.

MECHANICAL DATA

Maximum overall length 104.8 mm
Maximum seated height 90.5 mm
Maximum diameter 39.7 mm
Base Small shell octal
Net weight 40 g
Mounting position Unrestricted←

CHARACTERISTICS

Maximum striking voltage 127 V←
Minimum applied supply voltage 133 V←
Maximum stabilising voltage at 40 mA 112 V←
Minimum stabilising voltage at 5 mA 105 V←
Nominal stabilising voltage 108 V←
D.C. operating current 5 to 40 mA
Maximum peak current (10 seconds max.) 100 mA
Nominal regulation, 5 to 30 mA 1 V←
Maximum regulation, 5 to 30 mA 2 V←
Nominal regulation, 5 to 40 mA 1.3 V←
Maximum regulation, 5 to 40 mA 4 V←
Nominal drift in stabilising voltage (100 to 1000 hours) 0.75 V←
Temperature coefficient, −20 to +70°C ±5 mV/°C←
Ambient temperature range −55 to +70 °C

NOTE

With suitable socket connections the internal connection between pins 3 and 7 acts as a switch to open the supply or load circuit when the valve is removed.

Not less than the quoted minimum supply voltage should be provided to ensure starting during life.

Sufficient resistance must always be kept in series with this type to limit the current through the valve to 40 mA under steady state conditions. As stated above during the initial warming up period a maximum current of 100 mA is permissible providing that a period of several minutes duration of operation at normal current follows.

Operation with reversed polarity will damage this valve.

May 1958  G105/1D—1

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Small Shell Octal Base

Basing:
1. No Connection
2. Cathode
3. Connected to Pin 7
4. No Pin
5. Anode
6. No Pin
7. Connected to Pin 3
8. No Connection

<table>
<thead>
<tr>
<th>DIM</th>
<th>MILLIMETRES</th>
<th>INCHES</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>104.8 MAX</td>
<td>4 1/8 MAX</td>
</tr>
<tr>
<td>B</td>
<td>39.7 MAX</td>
<td>1 19/16 MAX</td>
</tr>
<tr>
<td>L</td>
<td>85.7 ± 4.8</td>
<td>3 3/8 ± 3/16</td>
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</tbody>
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Note:-- Basic figures are inches.

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