DESCRIPTION

The GL-546 is an inert-gas-filled thyratron designed with a shield grid. The control characteristic of the GL-546 is independent of ambient temperature over a wide range. The small size and lightweight construction are features which especially adapt it to many control and relay applications where compactness and weight are important factors.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Number of electrodes</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cathode—Indirectly heated type</td>
<td>6.3 volts</td>
</tr>
<tr>
<td>Voltage</td>
<td>0.15 ampere</td>
</tr>
<tr>
<td>Current, approx</td>
<td>10 seconds</td>
</tr>
<tr>
<td>Heating time, minimum</td>
<td>14–16 volts</td>
</tr>
<tr>
<td>Tube voltage drop, approx</td>
<td>0.1 micromicrofarad</td>
</tr>
<tr>
<td>Average anode to control-grid capacitance</td>
<td>0.01 megohm*</td>
</tr>
<tr>
<td>Grid resistor</td>
<td>0.1 megohms*</td>
</tr>
<tr>
<td>Minimum</td>
<td>Ambient temperature</td>
</tr>
<tr>
<td>Maximum</td>
<td></td>
</tr>
</tbody>
</table>

*When the tube is operated with an a-c anode voltage and a high value of grid-circuit resistance, the grid-anode capacitance should be made as small as possible by placing the grid resistor directly at the socket terminal.
TECHNICAL INFORMATION (CONT'D)

Mechanical
- Net weight, approx. 1/3 ounce
- Shipping weight, approx. 3 pounds

MAXIMUM RATINGS

Maximum peak anode voltage
- Inverse .......................... 500 volts
- Forward .......................... 500 volts

Maximum anode current
- Instantaneous .................... 100 milliamperes
- Average .......................... 20 milliamperes

Maximum time of averaging anode current .................. 15 seconds

GL-546 THYRATRON
TYPICAL CONTROL CHARACTERISTICS

$E_{c2} = 0$

SHADeD AREA SHOWS RANGE OF CHARACTERISTIC
MINIATURE BUTTON
7-PIN BASE

ANODE
90°

GRID #1

GRID #2

CATHODE

HEATER

HEATER

NO CONNECTION

BOTTOM VIEW OF SOCKET CONNECTIONS

OUTLINE
GL-546 THYRATRON