The L4961 is a robust fault tolerant switch for pulsed gas laser service.

**KEY FEATURES**

- Voltage blocking to 35 kV
- Short pulse peak current to 12.5 kA
- Metal/ceramic construction suitable for liquid or forced-air cooling
- Mounting flange at cathode potential
- Incorporated TiH reservoir maintains gas pressure as thyratron ages

**SPECIFICATIONS**

**MAXIMUM RATINGS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Anode Voltage (epy)</td>
<td>35 kV</td>
</tr>
<tr>
<td>Peak Anode Current (ib)</td>
<td>12,500 A</td>
</tr>
<tr>
<td>Average Anode Current (Ib)</td>
<td>1.25 ADC</td>
</tr>
<tr>
<td>RMS Anode Current (Ip)**</td>
<td>47.5 ARMS</td>
</tr>
<tr>
<td>Anode Current Rate of Rise (dib/dt)</td>
<td>100,000 A/µs</td>
</tr>
<tr>
<td>Anode Delay Time (tad)</td>
<td>0.5 µs</td>
</tr>
<tr>
<td>Time Jitter (tj)</td>
<td>0.005 µs</td>
</tr>
<tr>
<td>Ambient Temp</td>
<td>-55° to +75 ° C</td>
</tr>
</tbody>
</table>

**ANCILLARY SUPPLIES**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Nom.</th>
<th>Min.</th>
<th>Max.</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Control Grid Voltage (egy)</td>
<td>----</td>
<td>750</td>
<td>2,500</td>
<td>V</td>
</tr>
<tr>
<td>Control Grid Voltage Pulse Width (tp)</td>
<td>2.0</td>
<td>1.0</td>
<td>----</td>
<td>µs</td>
</tr>
<tr>
<td>Control Grid Voltage Rise Time (tr)</td>
<td>----</td>
<td>----</td>
<td>0.35</td>
<td>µs</td>
</tr>
<tr>
<td>Control Grid Source Drive Impedance (Zg)</td>
<td>----</td>
<td>----</td>
<td>400</td>
<td>Ω</td>
</tr>
<tr>
<td>Negative Control Grid Bias (Ecc)</td>
<td>----</td>
<td>0</td>
<td>-200</td>
<td>VDC</td>
</tr>
<tr>
<td>Heater Voltage (Ef)</td>
<td>----</td>
<td>5.8</td>
<td>6.8</td>
<td>VAC/VDC</td>
</tr>
<tr>
<td>Heater Current at 6.3 V (Ih)</td>
<td>19</td>
<td>16</td>
<td>22</td>
<td>AAC/ADC</td>
</tr>
<tr>
<td>Reservoir Voltage (Eres)</td>
<td>----</td>
<td>5.8</td>
<td>6.8</td>
<td>VAC/VDC</td>
</tr>
<tr>
<td>Reservoir Current at 6.3 V (Ires)</td>
<td>2.5</td>
<td>----</td>
<td>3</td>
<td>AAC/ADC</td>
</tr>
<tr>
<td>Warm-up Time (tk)</td>
<td>----</td>
<td>5</td>
<td>----</td>
<td>min.</td>
</tr>
</tbody>
</table>

*For pulsewidths in excess of 1 µsec, the peak current should not exceed 2,000 A.

**The root mean square anode current shall be computed as the square root of the product of peak current and average current, (ib x Ib)^0.5.**

Specifications are subject to change without notice.
SEE OUTLINE

(measurements in inches)