MINIATURE CADMIUM SULPHIDE PHOTOCONDUCTIVE CELL

FEATURES

- Miniature open frame package
- Epoxy coated
- Moisture resistant
- Spectral response similar to the human eye
- Applications include dusk-dawn lighting control

DIMENSIONS IN MILLIMETRES

SPECIFICATION AND PERFORMANCE

<table>
<thead>
<tr>
<th>Model</th>
<th>Vmax (VDC)</th>
<th>Pmax (mW)</th>
<th>Ambient temp(℃)</th>
<th>Spectral peak (nm)</th>
<th>Light Resistance at 10Lux (KΩ)</th>
<th>Dark Resistance at 100Lux (MΩ)</th>
<th>Gamma value at 100-10Lux</th>
<th>Response Time (ms)</th>
<th>Rise Time</th>
<th>Decay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>GL5537-1</td>
<td>150</td>
<td>90</td>
<td>-30~+70</td>
<td>540</td>
<td>20-30</td>
<td>5</td>
<td>0.7</td>
<td>30</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Measuring Conditions

1. **Light resistance:**
   Measured at 10 Lux with standard light A (2854K color temperature) and 2hr illumination at 400-600 lux prior to testing.

2. **Dark Resistance:**
   Measured 10 seconds after closed 10 lux.

3. **Gamma Characteristic:**
   Between 10 lux and 100 lux and given by
   \[ \gamma = \lg\left(\frac{R_{10}}{R_{100}}\right) \]
   \( R_{10} \) and \( R_{100} \) Cell resistance at 10 lux and 100 lux.
   The error of \( \gamma \) is ± 0.1.

4. **Pmax:**
   Max. power dissipation at ambient temperature of 25 °C.

5. **Vmax:**
   Max. voltage in darkness that may be applied to the cell continuously.