DESCRIPTION
The **PDV-P5001** are (CdS) Photoconductive photocells designed to sense light from 400 to 700 nm. These light dependent resistors are available in a wide range of resistance values. They’re packaged in a two leaded plastic-coated ceramic header.

FEATURES
- Visible light response
- Sintered construction
- Low cost

RELIABILITY
Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS
- Camera exposure
- Shutter controls
- Night light controls

ABSOLUTE MAXIMUM RATINGS

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MIN</th>
<th>MAX</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Voltage</td>
<td>-</td>
<td>-</td>
<td>350 V</td>
</tr>
<tr>
<td>Continuous Power Dissipation</td>
<td>-</td>
<td>-</td>
<td>400 mW/°C</td>
</tr>
<tr>
<td>Operating and Storage Temperature</td>
<td>-30</td>
<td>to +75</td>
<td>°C</td>
</tr>
<tr>
<td>Soldering Temperature*</td>
<td>-</td>
<td>-</td>
<td>+260 °C</td>
</tr>
</tbody>
</table>

* 0.200 inch from base for 3 seconds with heat sink.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.
### OPTO-ELECTRICAL PARAMETERS

**PARAMETER** | **TEST CONDITIONS** | **MIN** | **TYP** | **MAX** | **UNITS**
--- | --- | --- | --- | --- | ---
Dark Resistance | After 10 sec. @ 10 Lux @2856°K | 0.3 | - | - | MΩ
Illuminating Resistance | 10 Lux @ 2856 °K | 8 | - | 16 | KΩ
Sensitivity | \( \frac{\log(R_{100}) - \log(R_{10})}{\log(E_{100}) - \log(E_{10})} \) | - | 0.6 | - | Ω/Lux
Spectral Application Range | Flooded | 400 | - | 700 | Nm
Spectral Application Range | Flooded | - | 520 | - | Nm
 Rise Time | 10 Lux @ 2856 °K | - | 55 | - | Ms
 Fall Time | After 10 Lux @ 2856 °K | - | 25 | - | Ms

**R100, R10: cell resistances at 100 Lux and 10 Lux at 2856 °K respectively .**

**E100, E10: luminances at 100 Lux and 10 Lux 2856 °K respectively.**