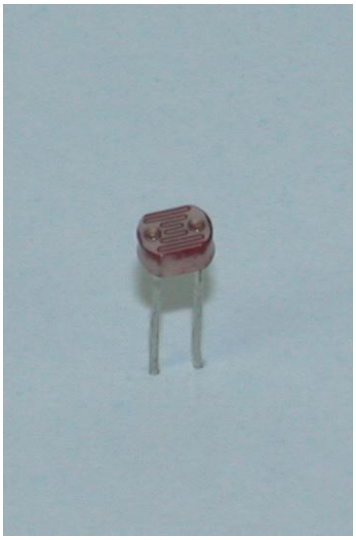
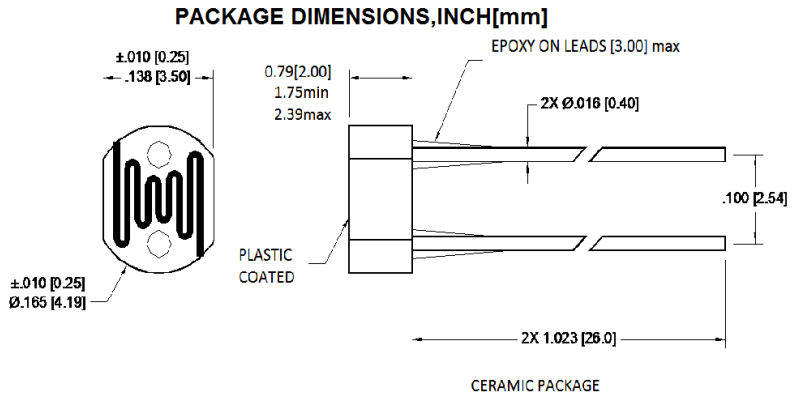
# CdS Photoconductive Photocells

## PDV-P9006

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## DESCRIPTION

The **PDV-P9006** 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

This Luna high-reliability device is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.
Contact Luna for recommendations on specific test conditions and procedures.

## APPLICATIONS

- Camera exposure
- Shutter controls
- Night light controls

## ABSOLUTE MAXIMUM RATINGS

| SYMBOL | MIN | | MAX | UNITS | (TA)= 23°C UNLESS OTHERWISE NOTED |
|---|---|---|---|---|---|
| Applied Voltage | - | - | 150 | V | - |
| Continuous Power Dissipation | - | - | 90 | mW/°C | - |
| Operation and Storage Temperature | -30 | to | +75 | V | - |
| Soldering Temperature* | - | - | +260 | °C | - |

* 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.



REV 10-24-16

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## OPTO-ELECTRICAL PARAMETERS

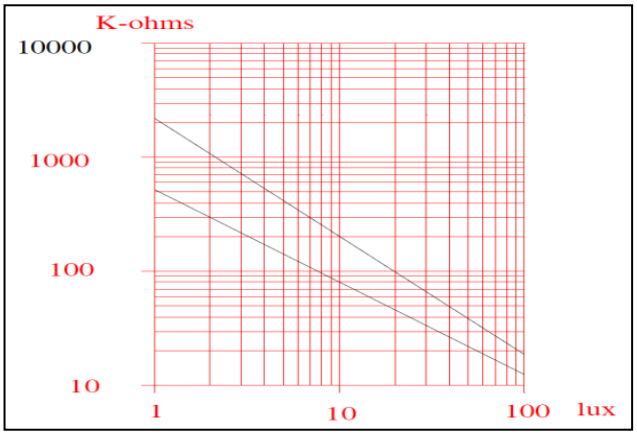
$T_a$ = 23°C unless noted otherwise

| PARAMETER | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| Dark Resistance | After 10 sec. @10 Lux @ 2856°K | 5 | - | - | MΩ |
| Illuminated Resistance | 10 Lux @ 2856°K | 80 | - | 200 | KΩ |
| Sensitivity | $\frac{\mathrm{Log(R100)} - \mathrm{Log(R10)}\ **}{\mathrm{Log(E100)} - \mathrm{Log(E10)}\ ***}$ | - | 1.0 | - | Ω/Lux |
| Spectral Application Range | Flooded | 400 | - | 700 | nm |
| Spectral Application Range | Flooded | - | 520 | - | nm |
| Rise Time | 10 Lux @ 2856 °K | - | 60 | - | 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.

## TYPICAL PERFORMANCE

### CELL RESISTANCE vs. ILLUMINANCE




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