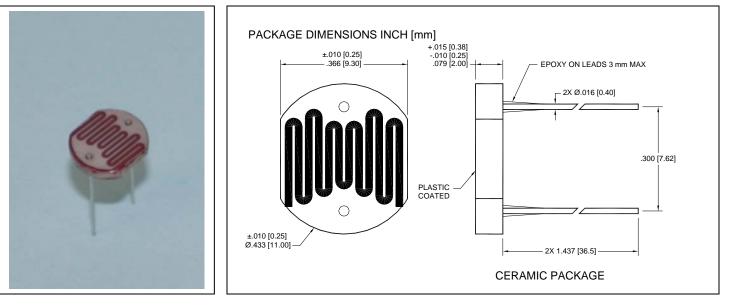


CdS Photoconductive Photocells



FEATURES

· Low cost

Visible light response

Sintered construction

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.

APPLICATIONS

- Camera exposure
- Shutter controls
- Night light Controls

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

| SYMBOL | PARAMETER | MIN | MAX | UNITS |
|-----------------------|-----------------------------------|-----|------|-------|
| V _{pk} | Applied Voltage | | 350 | V |
| P _{d Δpo/Δt} | Continuous Power Dissipation | | 400 | mW/°C |
| To | Operating and Storage Temperature | -30 | +75 | °C |
| Ts | Soldering Temperature* | | +260 | °C |

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

ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------|----------------------------|---|-----|-----|-----|--------------------|
| R _D | Dark Resistance | After 10 sec. @ 10 Lux @ 2856 °K | 0.3 | | | $\mathbf{M}\Omega$ |
| Ri | Illuminated Resistance | 10 Lux @ 2856 °K | 8 | | 16 | ΚΩ |
| S | Sensitivity | LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)*** | | 0.6 | | $\Omega/{ m Lux}$ |
| λ range | Spectral Application Range | Flooded | 400 | | 700 | nm |
| λ peak | Spectral Application Range | Flooded | | 520 | | nm |
| t _r | Rise Time | 10 Lux @ 2856 °K | | 55 | | ms |
| T _f | 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.

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.