



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



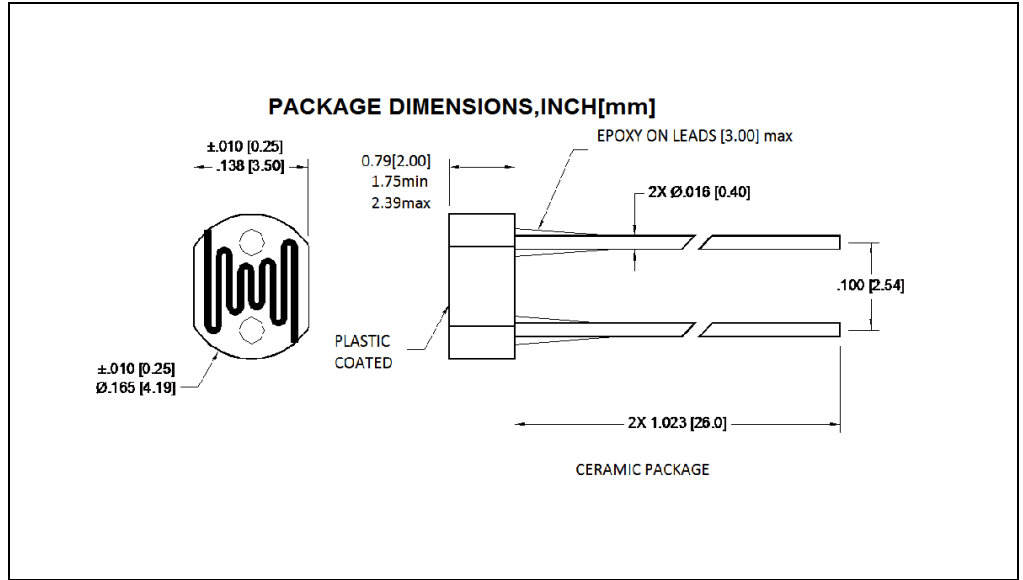
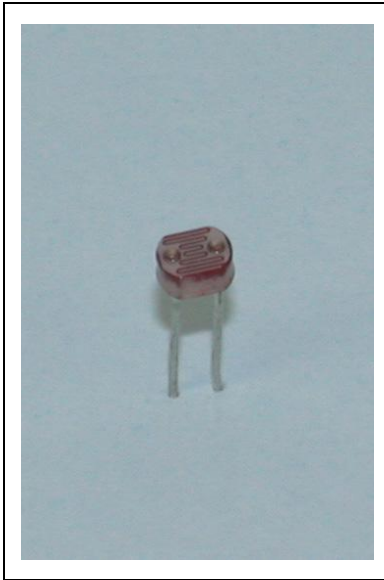
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DESCRIPTION

The **PDV-P9002-1** 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.

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 | 0.5 | - | - | MΩ |
| Illuminated Resistance | 10 Lux @ 2856°K | 11 | - | 27 | KΩ |
| Sensitivity | $\frac{\text{Log}(R100) - \text{Log}(R10)}{\text{Log}(E100) - \text{Log}(E10)}$ | 400 | 0.70 | - | Ω/Lux |
| Spectral Application Range | Flooded | - | - | 700 | nm |
| Spectral Application Range | Flooded | - | 570 | - | nm |
| Rise Time | 10 Lux @ 2856 °K | - | 60 | - | ms |
| Fall Time | After 10 Lux @ 2856 °K | 0.5 | 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

