

# Photoconductive Cells CdS

P/N: CDS004-5001

## ■ Features

- Epoxy Encapsulated.
- Big Dimensions.
- Operating Temperature -25°C ~+75°C.

## ■ Applications

- Contrast Control in TV Sets.
- Street Light Controls.
- Electrical machines.
- Industrial Controls.

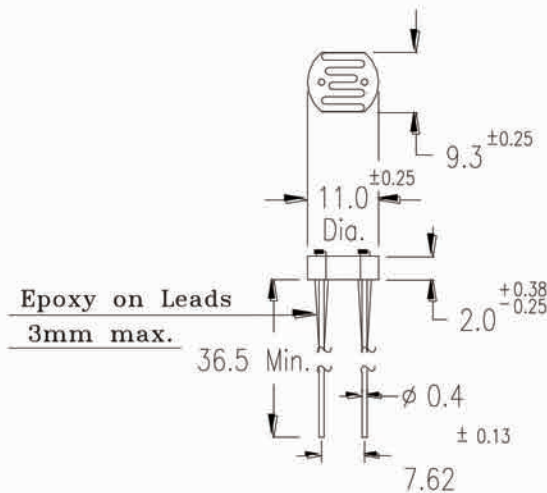
## ■ Absolute Maximum Ratings

| Parameter                                      | Symbol | Rating   | Units |
|--|--------|----------|-------|
| Continuous power dissipation derate above 25°C | Pd     | 400      | mW    |
| Maximum Voltage                                | Vmax   | 350      | Vpeak |
| Temperature range (Operating and Storage)      | Ta     | -25 ~+75 | °C    |

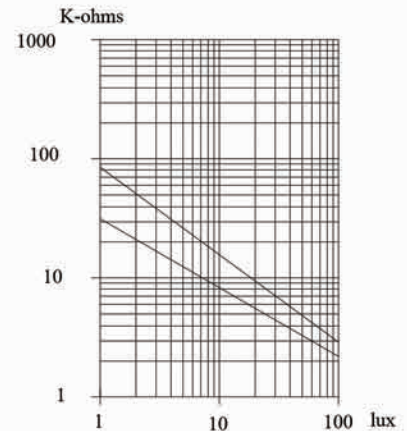
## ■ Electrical Characteristics (at 25°C)

| Parameter   | Symbol                                      | Min. | Typ. | Max. | Units          |
|---|---|------|------|------|----------------|
| Resistance @ 10 Lux, 2850 K                       | R <sub>L</sub>                              | 8    |      | 16   | K <sub>Ω</sub> |
| Dark Resistance (10 sec. after removal of 10 Lux) | R <sub>D</sub>                              |      | 0.3  |      | M <sub>Ω</sub> |
| Sensitivity                                       | $\frac{\log(R_{10}/R_{100})}{\log(100/10)}$ |      | 0.6  |      |                |
| Peak Spectral Response                            | λ   |      | 570  |      | nm             |

## ■ Dimensional Outline (Unit: mm)



## ■ Typical Resistance vs. Variable Illumination



|          |          |         |       |                |
|----------|----------|---------|-------|----------------|
| Released | Approved | Checked | Drawn | REVISION       |
|          |          |         |       | D Feb 04, 2005 |