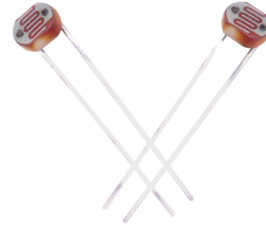


### CDS5537

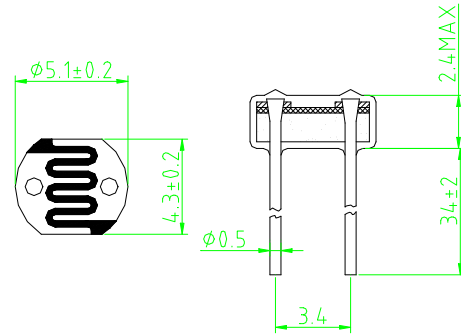
**Features:**

- Epoxy Encapsulated
- Reliable Performance
- Quick Response
- Good Characteristic of Spectrum



**Applications:**

- Industrial Control
- Photoelectric Control
- Photoswitch
- Electronic Toys



| Model   | V <sub>max</sub><br>(VDC) | P <sub>max</sub><br>(mW) | Ambient<br>Temp<br>(°C) | Spectral<br>Peak<br>(nm) | Photo<br>Resistance<br>(10Lx) (KΩ) | Dark<br>Resistance<br>(MΩ)min | γ<br>min | Response Time<br>(ms) |       |
|---------|---------------------------|--------------------------|-------------------------|--------------------------|------------------------------------|-------------------------------|----------|-----------------------|-------|
|         |                           |                          |                         |                          |                                    |                               |          | Rise                  | Decay |
| CDS5537 | 150                       | 100                      | -30 ~ +70               | 540                      | 16 ~ 50                            | 2.0                           | 0.7      | 20                    | 30    |

#### Measuring Conditions

1. Light Resistance:  
Measured at 10 lux with standard light A (2854K-color temperature) and 2hr. preillumination at 400-600 lux prior testing.
2. Dark Resistance :  
Measured 10 seconds after closed 10 lux.
3. Gamma characteristic:  
Between 10 lux and 100 lux and given by  

$$\gamma = \frac{\log(R_{10}/R_{100})}{\log(100/10)} = \log(R_{10}/R_{100})$$
 R<sub>10</sub>,R<sub>100</sub>: Cell resistance at 10 lux and 100 lux. The tolerance of γ is ±0.1.
4. Pmax:  
Max. Power Dissipation at ambient temperature of 25° C.
5. Vmax:  
Max. Voltage in Darkness that may be applied to the cell continuously.