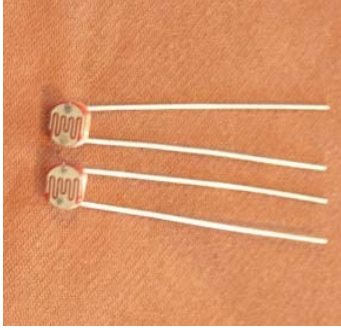


# CdS PHOTOCONDUCTIVE CELLS

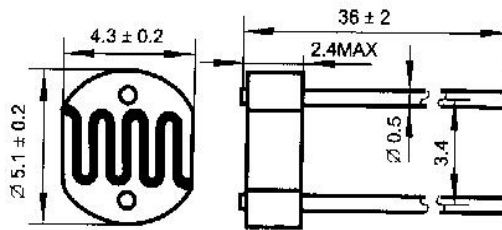
# GL5528



- ▲ Epoxy encapsulated
- ▲ Quick response
- ▲ Small size
- ▲ High sensitivity
- ▲ Reliable performance
- ▲ Good characteristic of spectrum

|                                     |            |
|-------------------------------------|------------|
| Light Resistance at 10Lux (at 25°C) | 8~20KΩ     |
| Dark Resistance at 0 Lux            | 1.0MΩ(min) |
| Gamma value at 100-10Lux            | 0.7        |
| Power Dissipation(at 25°C)          | 100mW      |
| Max Voltage (at 25°C)               | 150V       |
| Spectral Response peak (at 25°C)    | 540nm      |
| Ambient Temperature Range:          | - 30~+70°C |

## Outline

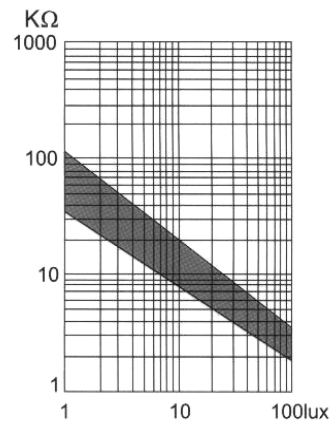


## Measuring Conditions

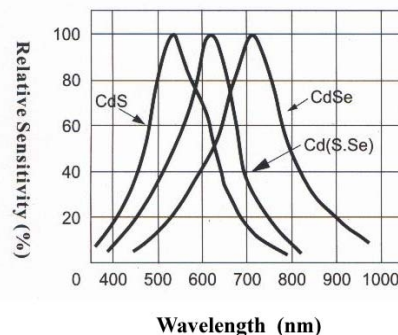
1. Light Resistance:  
measured at 10 lux with standard light A (2854k color temperature) and 2h pre-illumination at 400-600 lux prior to testing.
2. Dark Resistance:  
measured 10 seconds after pulsed 10 lux.
3. Gamma Characteristic:  
between 10 lux and 100 lux and given by  

$$T = \frac{\log(R_{10}/R_{100})}{\log(100/10)} = \log(R_{10}/R_{100})$$
 R10, R100 cell resistance at 10 lux and 100 lux.  
The error of T 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.

## Illuminance Vs. Photo Resistance



## Spectral Response



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