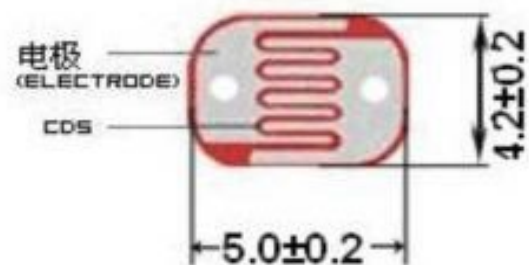
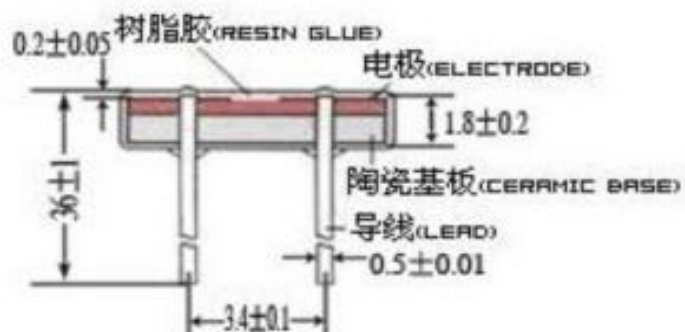


## CDS $\Phi 5$ 系列 单位: mm



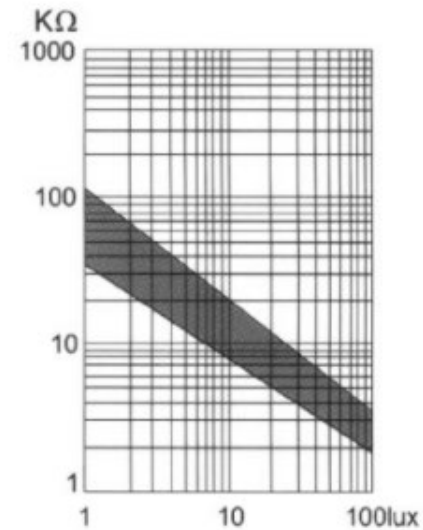
| Specification | Type | Max Power consumption(mW) | Max Voltage (VDC) | Ambient Temperature Range | Spectrum Peak value (nm) | Light Resistance@10Lux(K $\Omega$ ) | Dark Resistance (M $\Omega$ ) | Gamma Value @10~100Lux | Response time(ms) |          | Illuminance Resistance Characteristic |
|---------------|------|---------------------------|-------------------|---------------------------|--------------------------|-------------------------------------|-------------------------------|------------------------|-------------------|----------|---------------------------------------|
|               |      |                           |                   |                           |                          |                                     |                               |                        | Increase          | Decrease |                                       |
| $\Phi 5$ mm   | 5528 | 100                       | 150               | -30° to +70°              | 540                      | 10-20                               | 0.5                           | 0.6                    | 20                | 30       | 3                                     |

## 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
$$T = \frac{\log(R_{10}/R_{100})}{\log(100/10)} = \log(R_{10}/R_{100})$$

R<sub>10</sub>, R<sub>100</sub> cell resistance at 10 lux and 100 lux.  
The error of T is +0.1.
4. P<sub>max</sub>:  
Max. power dissipation at ambient temperature of 25°C.
5. V<sub>max</sub>:  
Max. voltage in darkness that may be applied to the cell continuously.

## Illuminance Vs. Photo Resistance



## Spectral Response

