

**CDS PHOTORESISTORS**  
**20mm Series...**

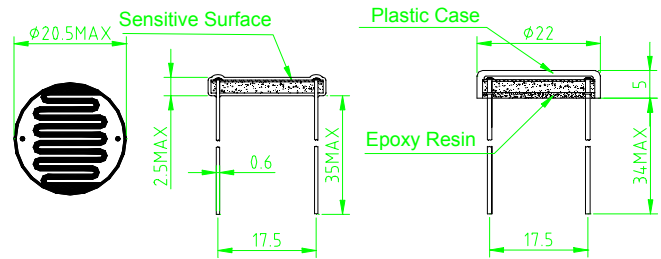
Features:

- Resin Package/Hermetic Package
- Reliable Performance
- Quick Response
- Good Characteristic of Spectrum



Applications:

- Industrial Control
- Photoelectric Control
- Photoswitch
- Electronic Toys



Resin Package

Hermetic Package

Model	V <sub>max</sub> (VDC)	P <sub>max</sub> (mw)	Ambient Temp (°C)	Spectral Peak (nm)	Photo Resistance (10Lux)(KΩ)	Dark Resistance (0Lux)(MΩ) Min	γ	Response Time (ms)	
								Rise	Decay
PGM2000	500	500	-30 ~ +70	560	2~5	1.0	0.6	30	40
PGM2001	500	500	-30 ~ +70	560	4~10	2.0	0.7	30	30
PGM2002	500	500	-30 ~ +70	560	8~20	5.0	0.7	30	30
PGM2003	500	500	-30 ~ +70	560	18~50	10	0.8	30	30
PGM2004	500	500	-30 ~ +70	560	45~150	20	0.8	30	30
PGM2005	500	500	-30 ~ +70	560	140~300	20	0.8	30	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  

$$\gamma = \log(R_{10}/R_{100}) / \log(100/10) = \log(R_{10}/R_{100})$$
 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.