

# CDS PHOTORESISTORS

## PGMxxx-MP Series...

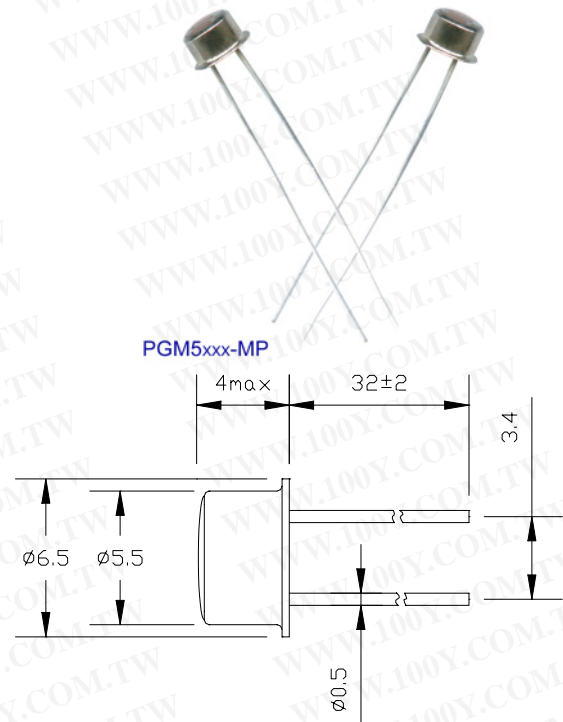
Metal Case package

### Features:

- Hermetic package
- Reliable Performance
- Quick Response
- Good Characteristic of Spectrum

### Applications:

- Industrial Control
- Photoelectric Control
- Photoswitch
- Electronic Toys



Model	V <sub>max</sub> (VDC)	P <sub>max</sub> (mW)	Ambient Temp (°C)	Spectral Peak (nm)	Photo Resistance (10Lx) (KΩ)	Dark Resistance (MΩ)min	γ <sub>min</sub>	Response Time (ms)	
								Rise	Decay
PGM5506-MP	100	90	-30 ~ +70	540	2 ~ 6	0.15	0.6	30	40
PGM5516-MP	100	90	-30 ~ +70	540	5 ~ 10	0.2	0.6	30	40
PGM5526-MP	150	100	-30 ~ +70	540	8 ~ 20	1.0	0.6	20	30
PGM5537-MP	150	100	-30 ~ +70	540	16 ~ 50	2.0	0.7	20	30
PGM5539-MP	150	100	-30 ~ +70	540	30 ~ 90	5.0	0.8	20	30
PGM5549-MP	150	100	-30 ~ +70	540	45 ~ 140	10.0	0.8	20	30

### Measuring Conditions

- Light Resistance:**  
Measured at 10 lux with standard light A (2854K-color temperature) and 2hr. preillumination at 400-600 lux prior testing.
- Dark Resistance :**  
Measured 10 seconds after closed 10 lux.
- 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.
- P<sub>max</sub>:**  
Max. Power Dissipation at ambient temperature of 25° C.
- V<sub>max</sub>:**  
Max. Voltage in Darkness that may be applied to the cell continuously.