

**Model No. : KE-10720**

### General Description:

By using the sintering film fabrication method, the manufacturing process of the photo conductive layer can offer high sensitivity and easy fabrication of large sensitive areas, a large mass production effect, and relatively superior production profitability

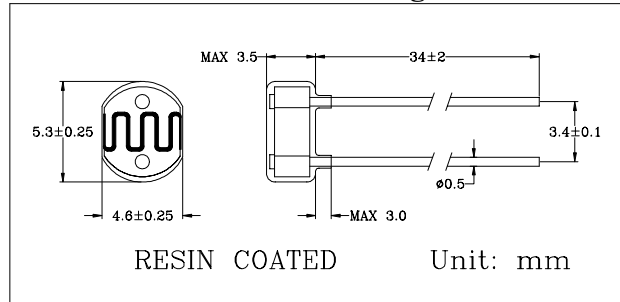
### Features:

- Low Cost
- Exceptional temperature stability
- Fast response time
- Excellent chopping capability

### Applications:

- ☐ Automatic dimmer
- ☐ Automatic flasher
- ☐ Optical relay

### Outline Dimensional Drawing



### Electrical Characteristics

(Ta=25°C)

Descriptions	Symbol	Min.	Typ.	Max.	Unit
Photo Resistance at 10 Lux (Light Source: 2856K)	R <sub>L</sub>	10		20	kΩ
Dark Resistance After 10 sec. Removal of 10 Lux	R <sub>D</sub>	0.5			MΩ
Gamma Value at 10 ~ 100 Lux	$\gamma_{10}^{100}$		0.7		
Maximum Power Dissipation	P <sub>D</sub>			35	mW
Maximum Breakdown Voltage	V <sub>MAX</sub>			100	V <sub>DC</sub>
Peak Spectral Response	$\lambda_p$	550		650	nm
Rise Response Time at 1 fc	t <sub>r</sub>		35		ms
Fall Response Time at 1 fc	t <sub>f</sub>		5		ms
Ambient Temperature	T <sub>A</sub>	-30 ~ +60			°C

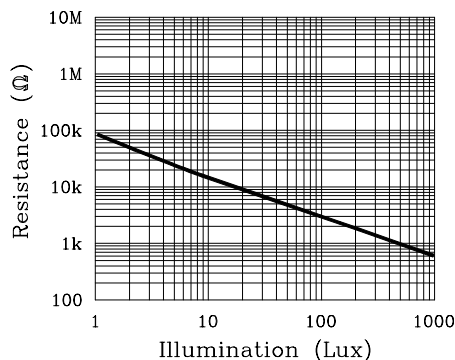
\* Pre-measurement condition: Exposed in 500 Lux for more than 3 hours.

$\gamma$  value: Standard gradient rate of resistance ranged by 10 ~ 100 Lux  
(±0.1 unless otherwise stated)

$$\gamma_a^b = \left| \frac{\text{Log}(R_b) - \text{Log}(R_a)}{\text{Log}(E_b) - \text{Log}(E_a)} \right|$$

Where: R<sub>x</sub> : Photo resistance as lighting x  
E<sub>x</sub> : Illumination as lighting x

Resistance vs Illumination



Relative Spectral Response

