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CdS Photoconductive cells

—LXD/5537

CdS Photoconductive cells ϕ 5 Series

Product Model: LXD/5537



■ FEATURE:

- Epoxy encapsulated
- Quick Response
- Small Size
- High Sensitivity
- Reblible Performance
- Good Characteristic of Spectrum

■ TYPICAL APPLICATIONS:

- Auto Flash For Cameras
- photoelectric Control
- Room Light Control
- Room Light Control
- Photomusical I.C.
- Industrial control
- Photoswitch
- Electronic Toys

■ DESCRIPTION:

CdS Photoconductive Cells is a resistor which made of semi-conductor material, and the conductance change with luminance variation. The CdS Photoconductive cells can be manufactured with different figures and illuminated area based on this characteristic. CdS Photoconductive cells is widely used in many industries, such as toys, lamps, camera, etc.

■ ELECTRO-OPTICAL CHARACTERISTICS :

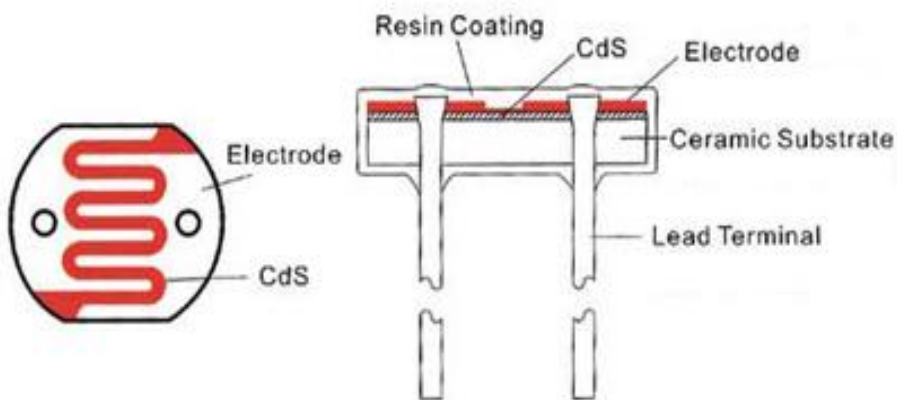
Parameter	Characteristics	Unit	
Light Resistance(at 10lux)	18-50	K Ω	
Dark Resistance(at 0 lux/Min)	2.0	M Ω	
Gamma Value(at 100-10lux)	0.7	γ_{10}^{100}	
Power Dissipation(at 25 $^{\circ}$ C)	100	MW	
Max Voltage(at 25 $^{\circ}$ C)	150	VDC	
Spectral Response peak(at 25 $^{\circ}$ C)	540	nm	
Ambient Temperature Range	-30~+70	$^{\circ}$ C	
Response time	Increase	20	ms
	Decrease	30	ms

- ※ Light resistance : Measured at 10lux(standard Light source)at a color temperature of 2856K. color temperature)and 2h pre-illumination at 400-600 lux prio to testing .
- ※ Dark resistance: measured 10 seconds after pulsed 10 lux.
- ※ Gamma Characteristic: between 10lux and 100lux and given by $T = \frac{\text{Log}(R_{10}/R_{100})}{\text{Log}(100/10)} = \text{Log}(R_{10}/R_{100})$
- ※ Pmax: Max. power dissipation at ambient temperature of 25 $^{\circ}$ C.
- ※ Vmax: Max. voltage in darkness that may be applied to the cell continuously .

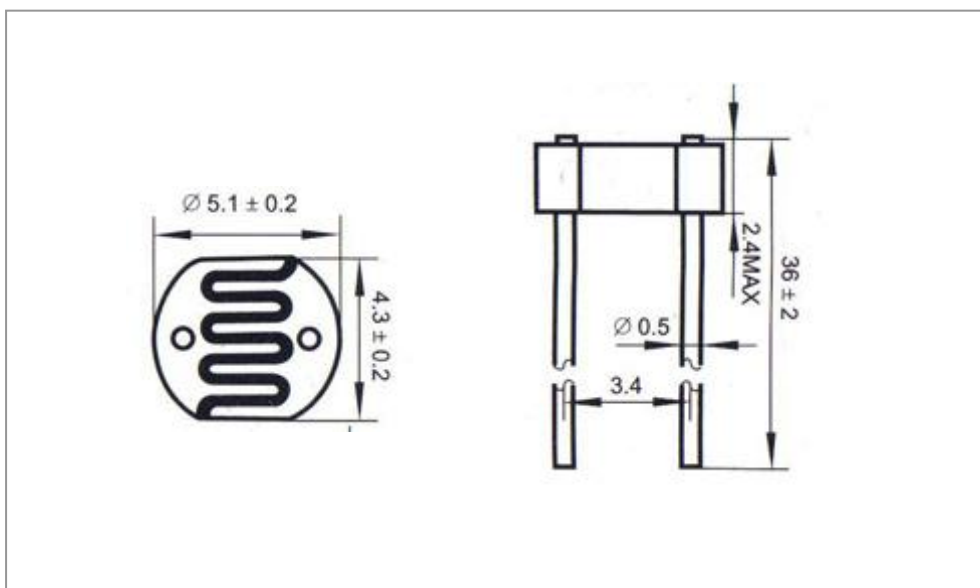
■ Component Information :

Component Name	ROSH	Notice
Resin Coating	YES	--
CdS	NO	Composition than 100 PPM
Electrode	YES	--
Ceramic Substrate	YES	--
Lead Terminal	YES	--

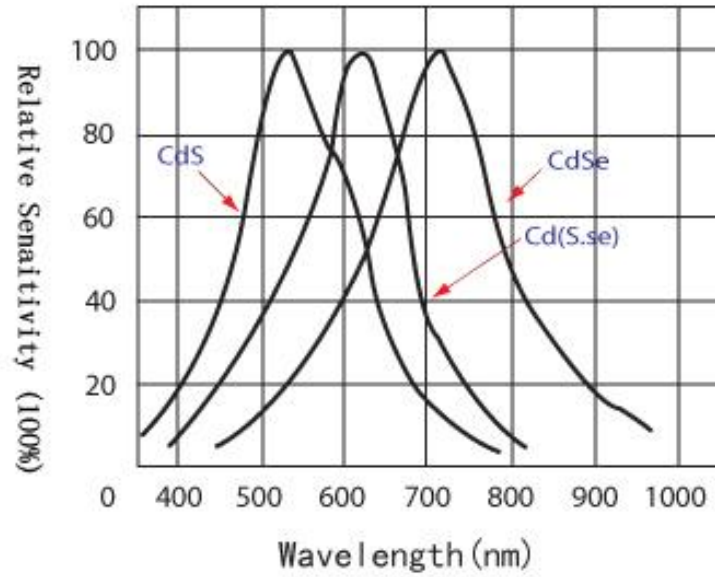
■ SCHEMATIC DRAWING :



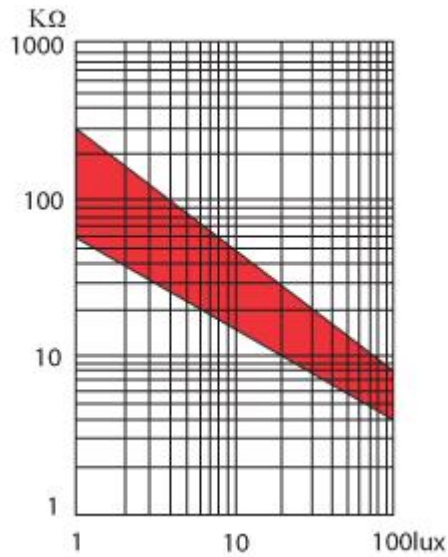
■ OUTLINE:(Unit: mm)



■ SPECTRAL RESPONSE :



■ ILLUNINANCE Vs. PHOTO RESISTANCE



■ TEST CONDITIONS

Light Resistance Dark Resistance	Light resistance:A light source(2856k) At 10Lux Dark resistance:data@10sec,after cutting off 10Lux light $r=Lg (R10/R100)$	Workable
Temperture Change Testing	High tempture: 70°C±5°C Time:30M Incident light:dark placing Testing time:24hr Low tempture:-30°C±5°C Time:30min Incident light:above dark placing as a recycle,testing time:24hr	Workable
Constant Temperture Testing	Temperture:40±5°C Moisture :90-95% Incident light:dark placing Testing time:48hr	Workable
Lead High Temperture Testing	At the root of lead 90 degree curving,5mm above the root,loading 100g charge Welding tempture: 260°C Heating time:Max.35,distance between welding and base:5mm	Workable

■ PACKING AND PRECAUTION:

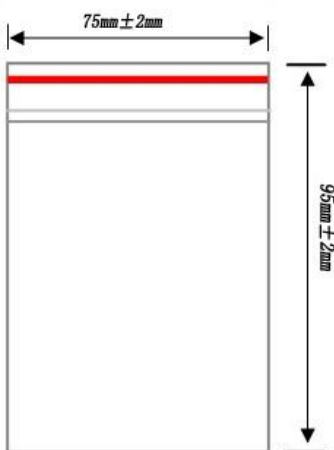


Image -01.

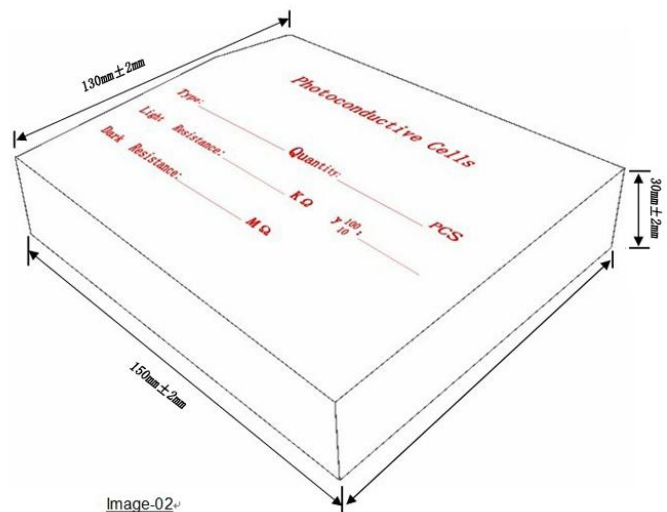


Image-02.

