

# Photoresistor

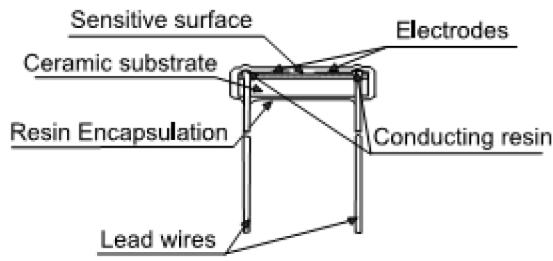
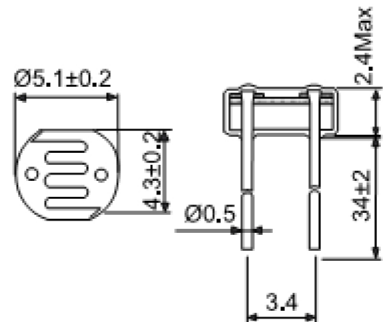


A photoresistor or light dependent resistor or cadmium sulfide (CdS) cell is a [resistor](#) whose [resistance](#) decreases with increasing incident light intensity. It can also be referenced as a photoconductor.

A photoresistor is made of a high resistance [semiconductor](#). If light falling on the device is of high enough [frequency](#), [photons](#) absorbed by the semiconductor give bound [electrons](#) enough energy to jump into the [conduction band](#). The resulting free electron (and its [hole](#) partner) conduct electricity, thereby lowering [resistance](#).

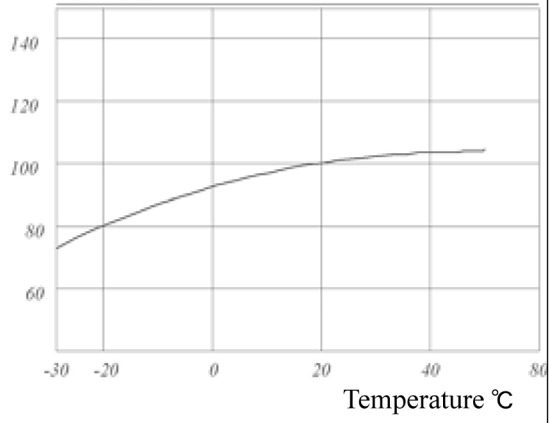
## Applications:

- Auto flash for cameras
- Industrial Control
- Photoelectric Control
- Photo switch
- Room light control
- Photo lamp
- Photo musical I. C.
- Electronic toys



Model	Vmax (VDC)	Pmax (mW)	Ambient Temp (°C)	Spectral Peak (nm)	Photo Resistance (10Lx) (KΩ)	Dark Resistance (MΩ)min	γ min	ResponseTime (ms)	
								Rise	Decay
PGM5537	150	100	-30 ~ +70	540	16 ~ 50	2.0	0.7	20	30

Resistance %



Sensitivity %

