

# PHOTORESISTORS

## 5mm LDR Radial Lead Types

### Description

Photoconductive cells are sensors that allow you to detect light. They are small, inexpensive, low-power, easy to use, and don't wear out. NTEs light-dependent resistors (LDR) are photoresistors whose resistance decreases with increasing incident light intensity. In other words, when it is dark, they have a high electrical resistance and when it is light, their electrical resistance is low.

### Features

- Epoxy Encapsulated
- Small Size
- Reliable Performance
- Quick Response
- High Sensitivity
- Good Characteristic of Spectrum

### Typical Applications

#### Digital Applications

- Automatic Headlight Dimmer
- Night/Streetlight Control
- Photoelectric Control
- Industrial Control
- Security System

#### Analog Applications

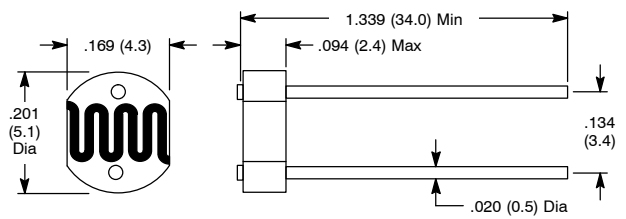
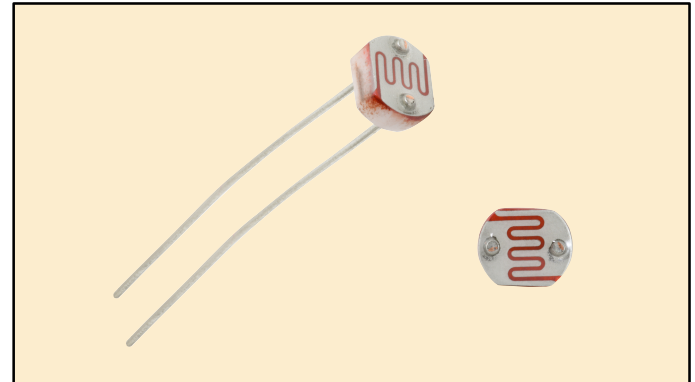
- Camera Exposure Control
- Automatic Gain Control

## Specifications

**Maximum Voltage:** 100VDC

**Spectral Response Peak:** 540nm

**Ambient Temperature Range:** -30° to +70°C



NTE Type	Power Dissipation (mW)	Light Resistance (10Lux)(KΩ)	Dark Resistance (KΩ)	$\gamma \frac{100}{10}$	Response Times	
					Increase	Decrease
02-LDR1	100	50 - 100	5.0	0.8	30	30
02-LDR2	90	5 - 10	0.5	0.5	30	30
02-LDR3	100	100 - 200	10.0	0.9	30	30