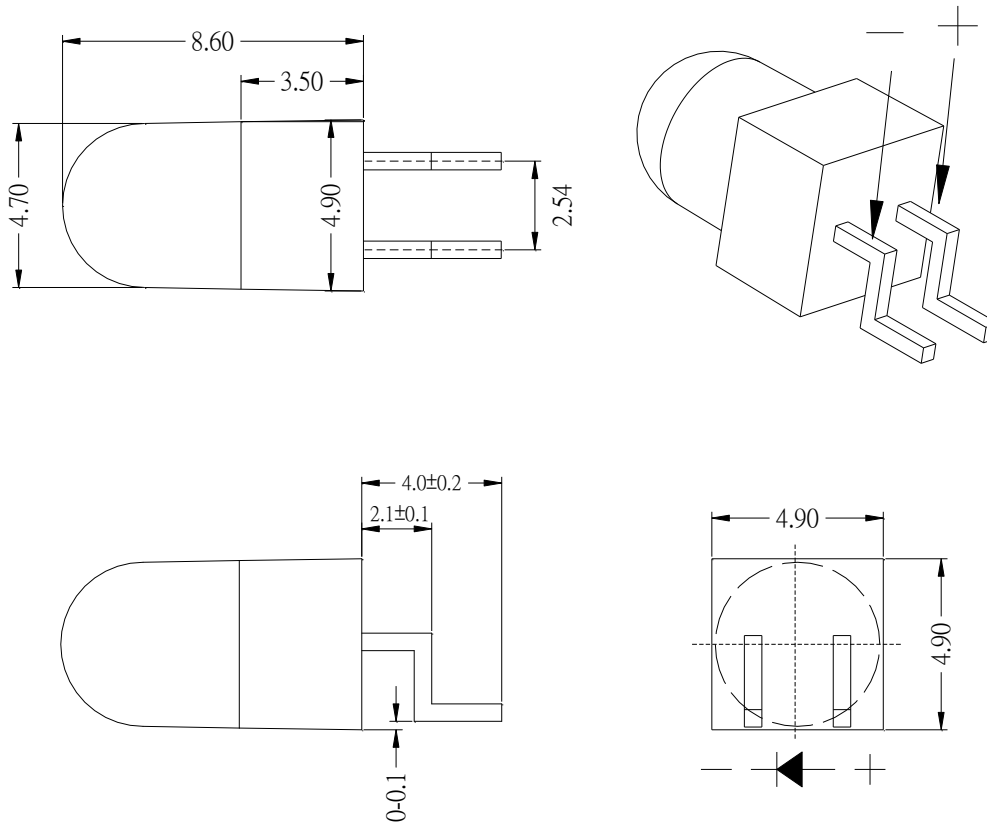




Features

- ◆ Pb free product RoHS compliant
- ◆ High Photo Sensitivity
- ◆ Reliable and rugged
- ◆ Long life solid state reliability
- ◆ Sensitivity angle: 55 °

Package Dimension



Part NO.	Chip Material	Lens Color
LG-05PD2D94Q-557K-B-T	Silicon	Black

Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.20 mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	150	mW
Reverse Voltage	30	V
Electrostatic Discharge (HBM) ^{*3}	8000	V
Operating Temperature	-40 to + 85	
Storage Temperature	-40°C to + 100°C	
IR Reflow Temperature	245 for 30 seconds	

1. Storage

The storage ambient for the LEDs should not exceed 30 °C temperature or 70% relative humidity.

It is recommended that LEDs out of their original packaging are used within three months.

For extended storage out of their original packaging, it is recommended that the LEDs be stored in a sealed container with appropriate desiccant or in desiccators with nitrogen ambient.

2. Precautions in handling:

- When soldering, leave 2mm of minimum clearance from the resin to the soldering point.
- Dipping the resin to solder must be avoided.
- Correcting the soldered position after soldering must be avoided.
- In soldering, do not apply any stress to the lead frame particularly when heated.
- When forming a lead, make sure not to apply any stress inside the resin.
- Lead forming must be done before soldering.
- It is necessary to cut the lead frame at normal temperature.

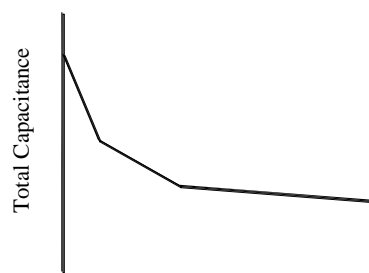
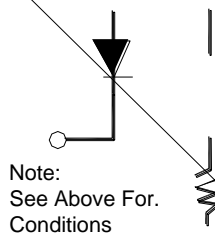
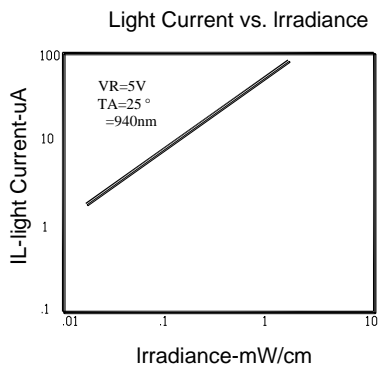
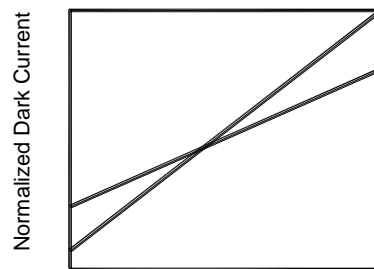
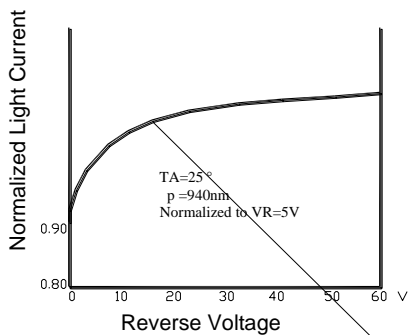
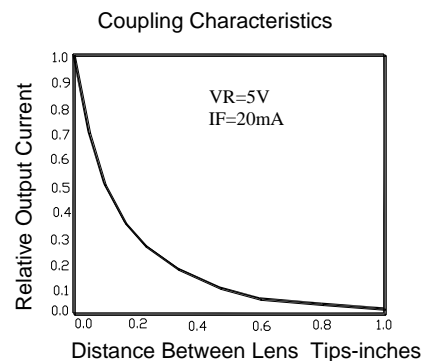
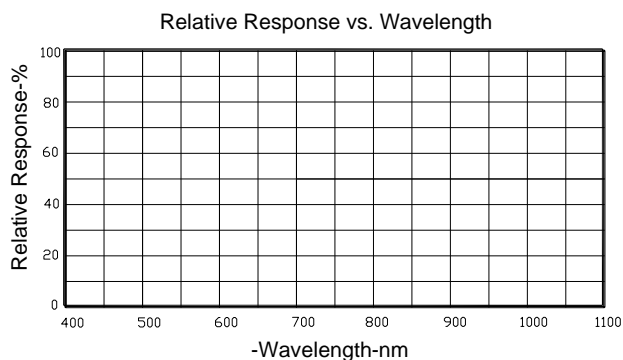
3. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics at Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Range Of Spectral Bandwidth	0.5	840	---	1100	nm	---
Reverse Light Current	I_L	65	84	---	μA	$V_R=5V$ $E_e=1mW/cm^2$ $=940nm$
Reverse Dark Current	I_D	---	---	30	nA	$V_R=10V$ $E_e=0mW/cm^2$
Reverse Voltage	$V_{(R)}$	30				

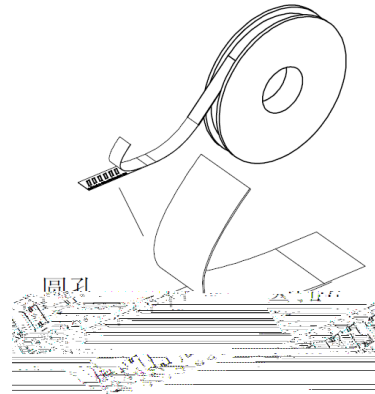
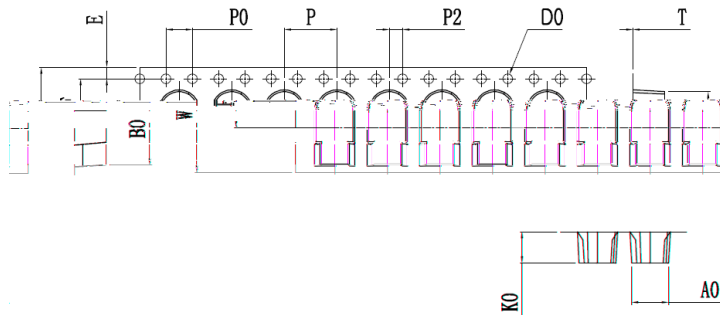
Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)



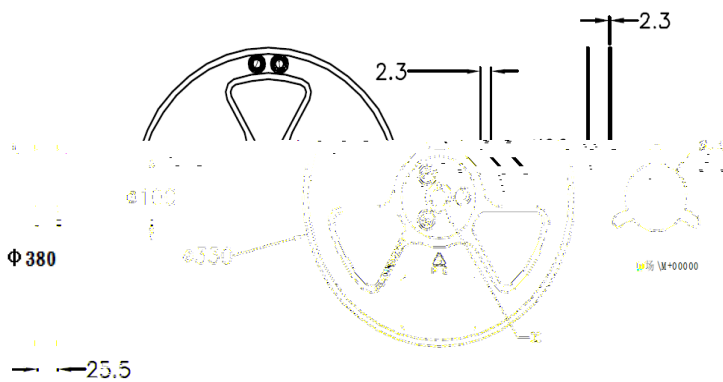
nm

Package

Package Dimensions



AS TYPED APPEARANCE



Item	Specification	
	Minum	Maximum
W	15.97	16.3
P	7.9	8.1
E	1.65	1.85
F	7.4	7.6
D	1.5	1.6
P0	3.9	4.1
P0x10	39.8	40.2
P2	1.9	2.1
A0	5.2	5.4
BO	10.6	10.8
K0	4.8	5.0

Notes:

- 1.All dimensions in millimeters.
- 2.All dimensions meet EIA-481-C requirements.
- 3.Cover tape by a heat sealing manner.

