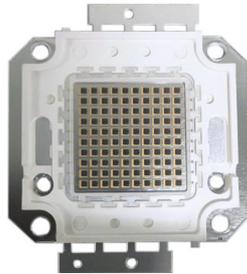


# PRODUCT SPECIFICATION



Part No.: WL-P100EP4242IR140-1050

High Power LED

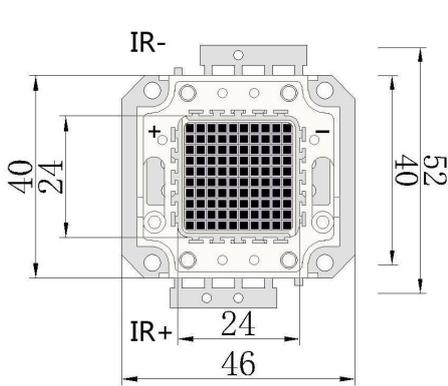
## Catalog

1.Product Features	P2
2.Dimensions	P2
3.Absolute Maximum Rating	P3
4.Optical Character	P3
5.Optical Character Curves	P4
6.Spectrum Curves	P5
7.Viewing Angle Curves	P5
8.Cautions	P6

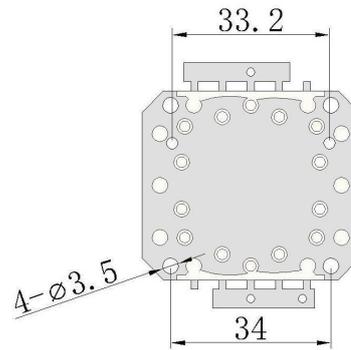
## 1. Product Features

- High Brightness IR LED Plane Package
- Viewing Angle 140 Degree
- Chip Material: AlGaInP
- RoHS Compliant

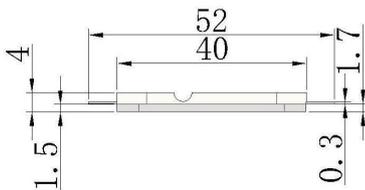
## 2. Dimensions



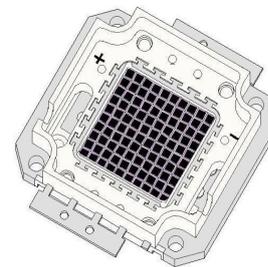
Top view



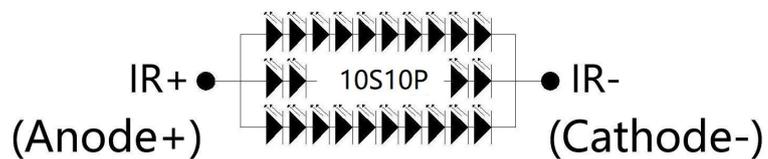
Bottom view



Side view



Perspective view



Circuit diagram

### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.1\text{mm}$  unless otherwise noted.

### 3. Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	3500	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	3800	mA
Reverse Voltage	VR	18	V
Power Dissipation	PD	100	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +80°C	
Storage Temperature Range	TSTG	-35°C to +100°C	
Soldering iron welding temperature (non-reflow soldering)	TSOL	350°C	

### 4. Optical Character @ Ta=25° C

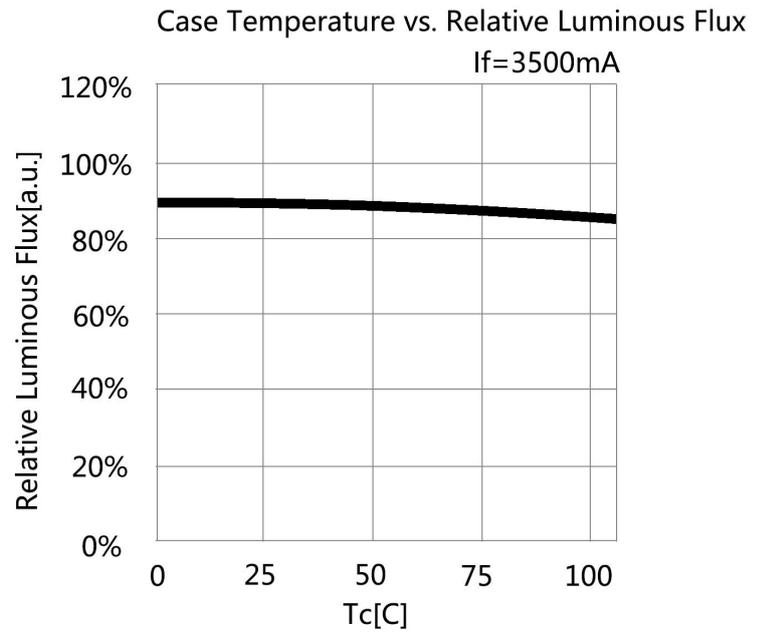
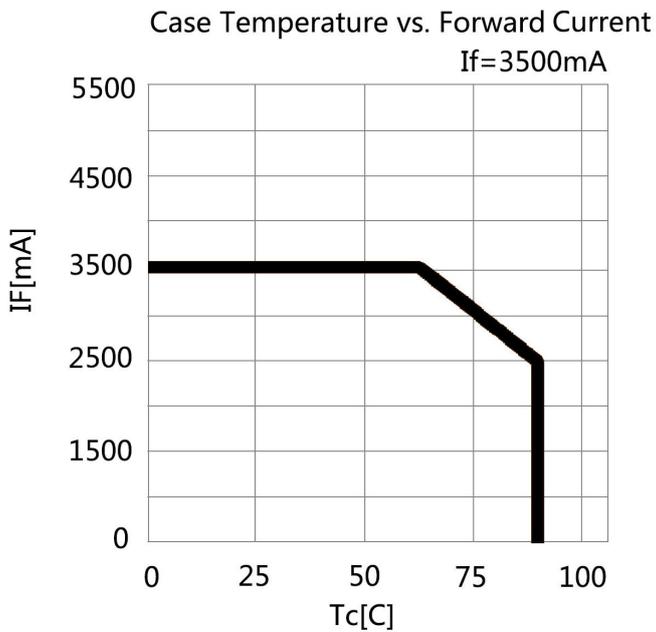
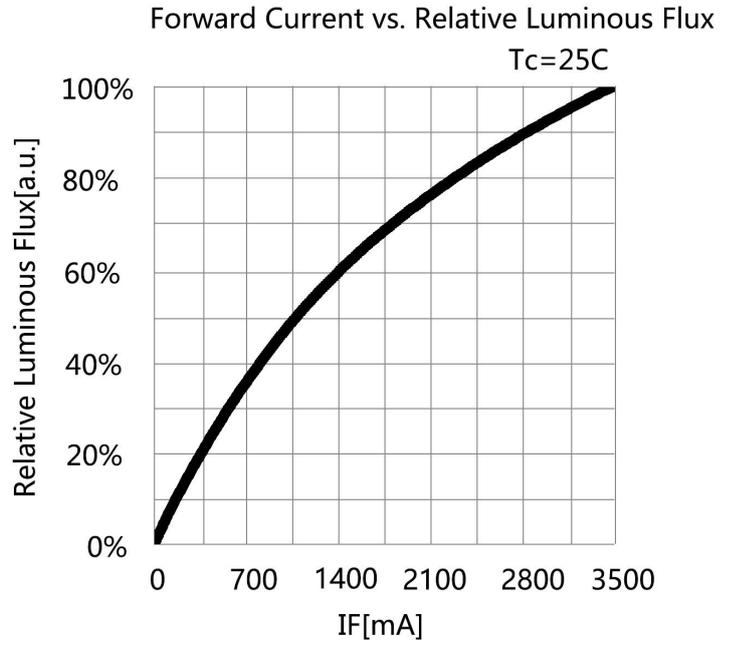
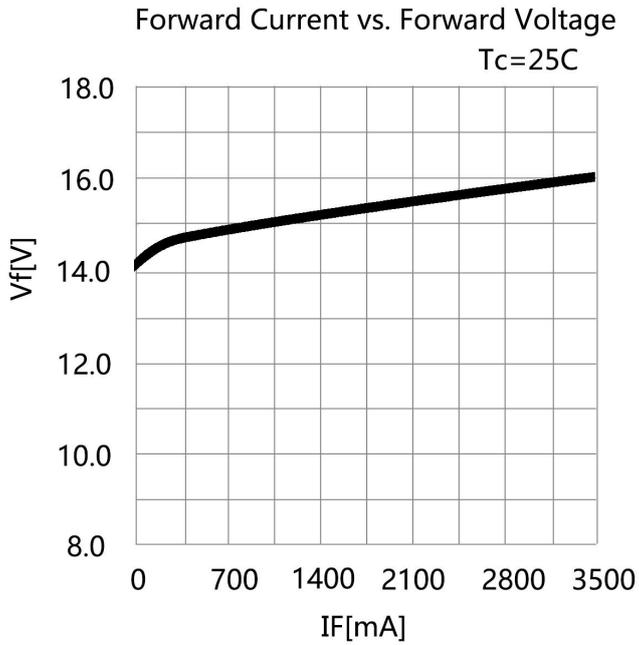
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	IR	14	15	16	V	IF=3500mA
Radiant Power	PO	IR	3000	4000	5000	mW	IF=3500mA
Peak Wavelength	WLP	IR	1040	1045	1050	nm	IF=3500mA
Reverse Current	IR		0		10	μA	VR=18V
Viewing Angle	2θ1/2				140	deg	IF=3500mA
Recommend Forward Current	IF(rec)	IR			3500	mA	

#### Notes:

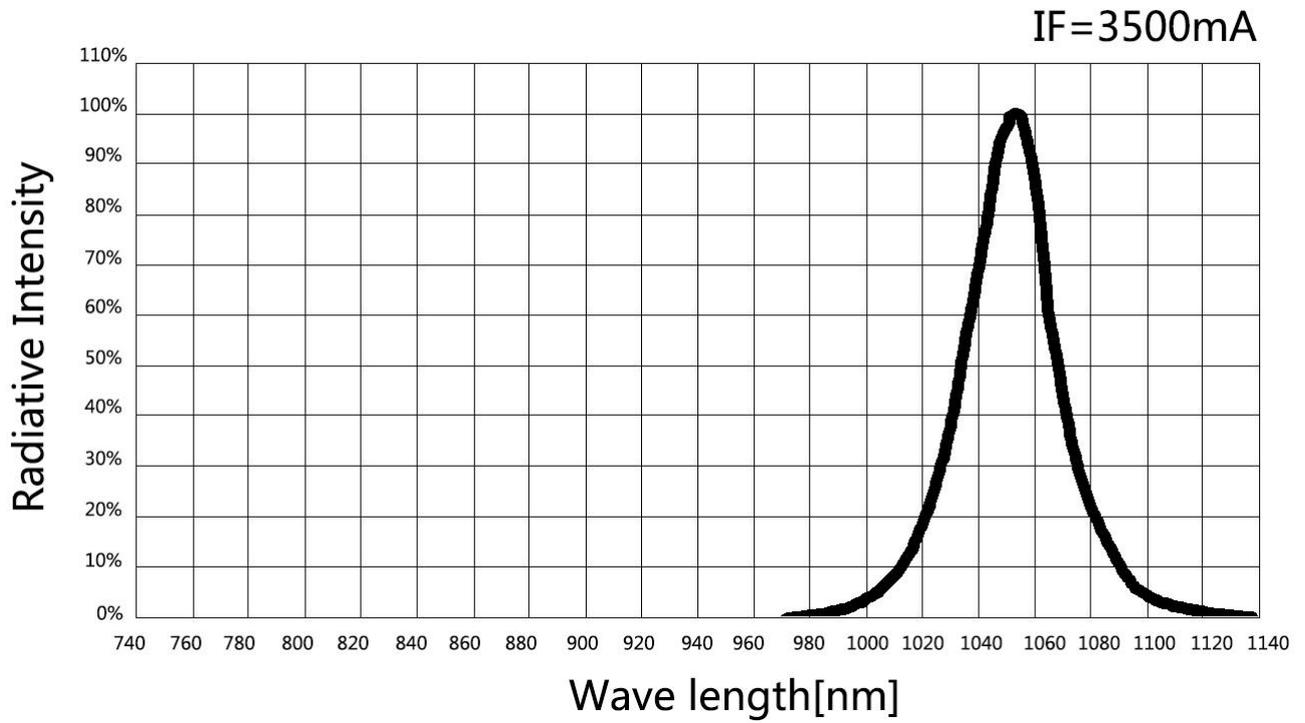
Measurement tolerance of forward voltage ±0.1V

## 5. Optical Character Curves

( 25 ° Ambient Temperature Unless Otherwise Noted )



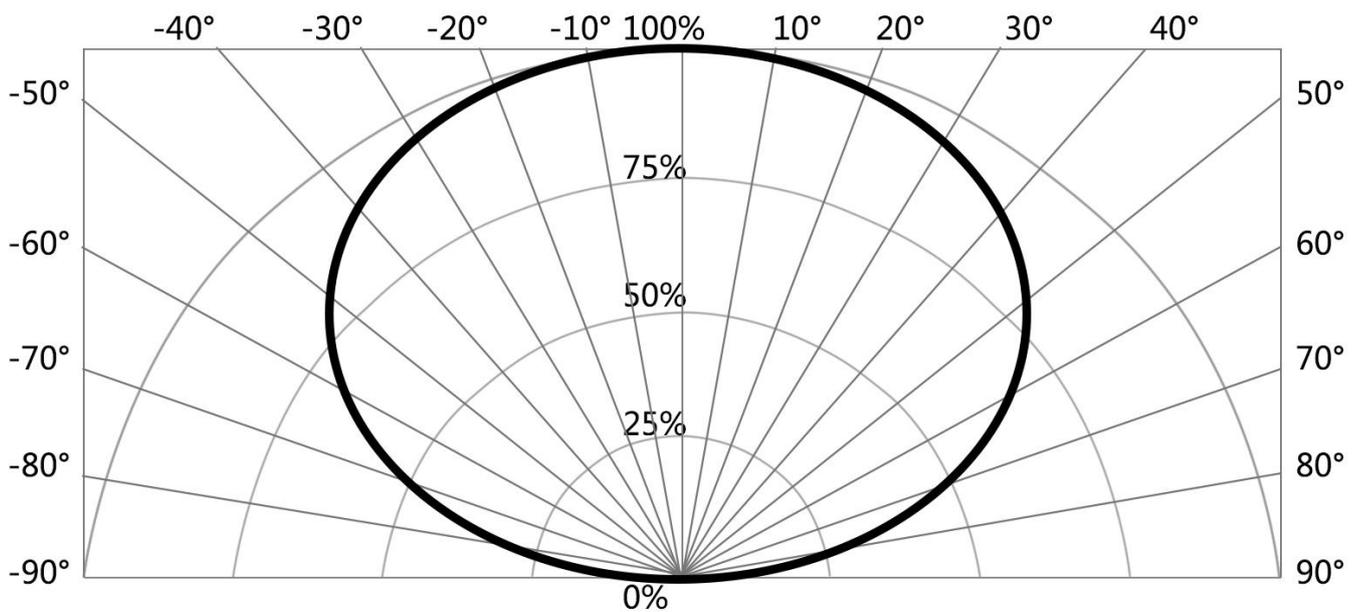
## 6. Spectrum Curves



## 7. Viewing Angle Curves

Radiation Characteristic

IF=3500mA



## 8.Cautions

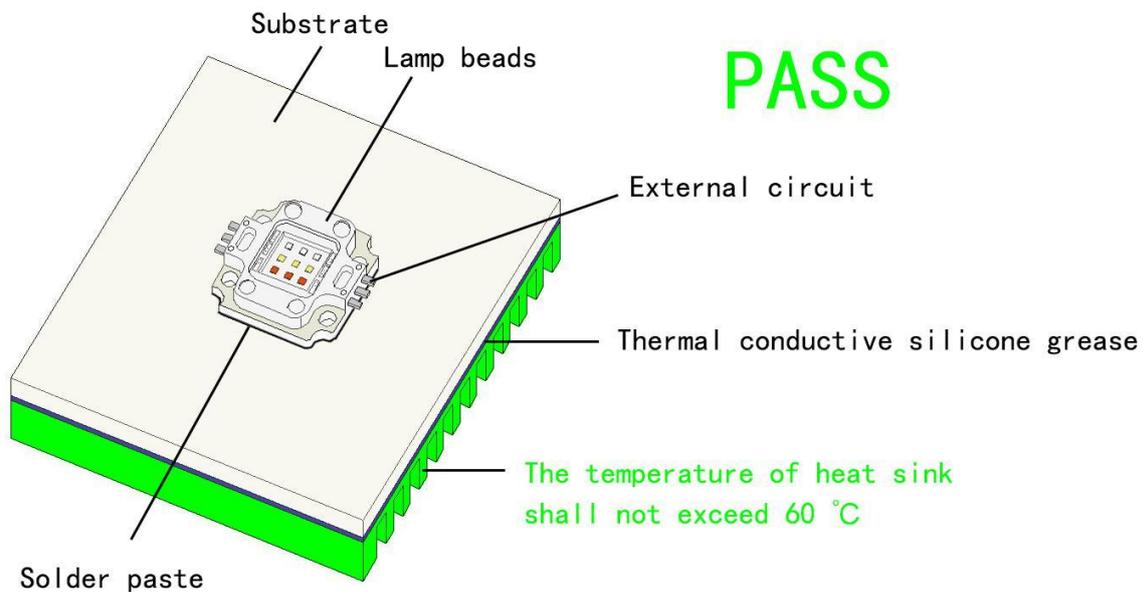
### 1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



### 2. Heat Dissipation

- A、 It is recommend to configure reasonable heat dissipation device for the product.
- B、 The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.



**OK**

