

# PRODUCT SPECIFICATION



**Part No.: WL-P500EP4242IR140-850-25S20P**  
**High Power LED**

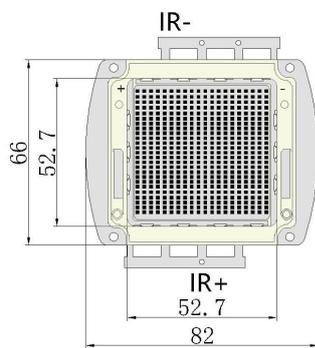
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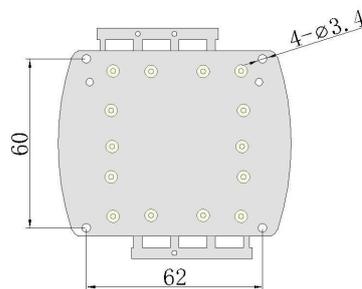
## 1. Product Features

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

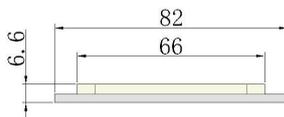
## 2. Dimensions



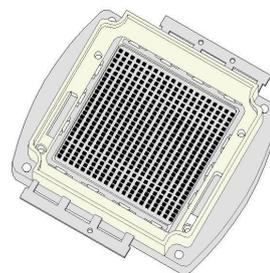
Top view



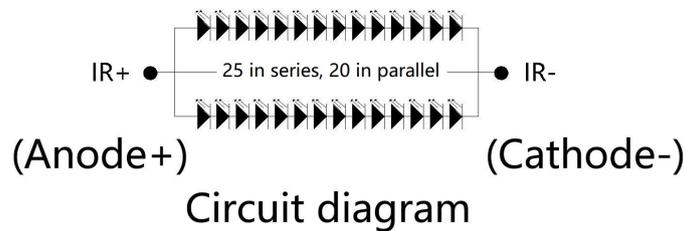
Bottom view



Side view



Perspective view



### Notes:

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

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

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	7000	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	7200	mA
Reverse Voltage	VR	40	V
Power Dissipation	PD	500	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 (reflow welding is not allowed)	TSOL	350°C	

### 4. Optical Character @ Ta=25° C

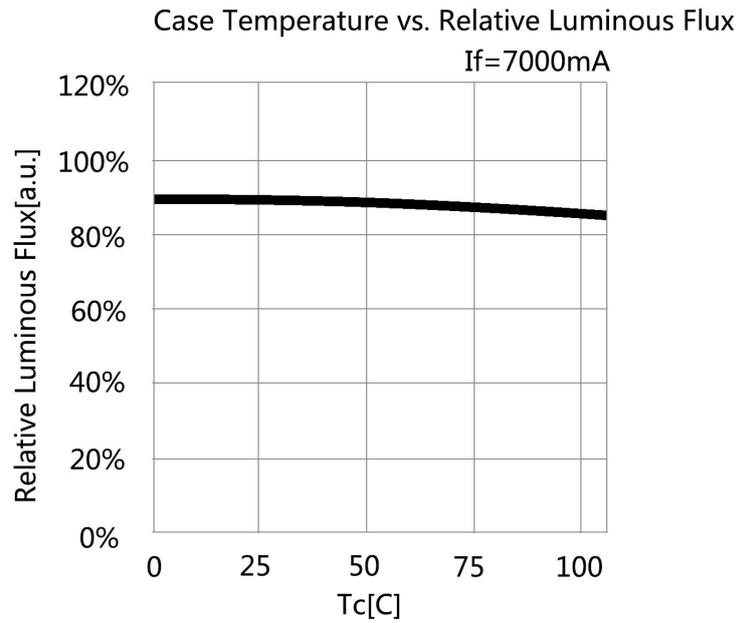
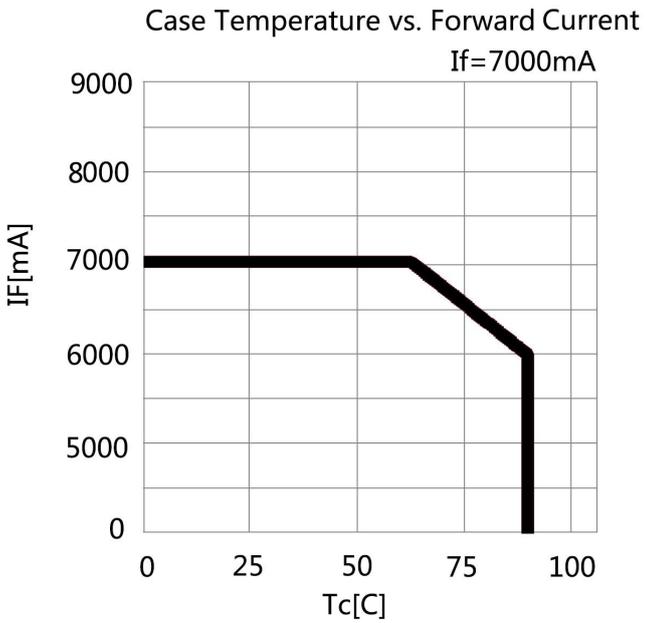
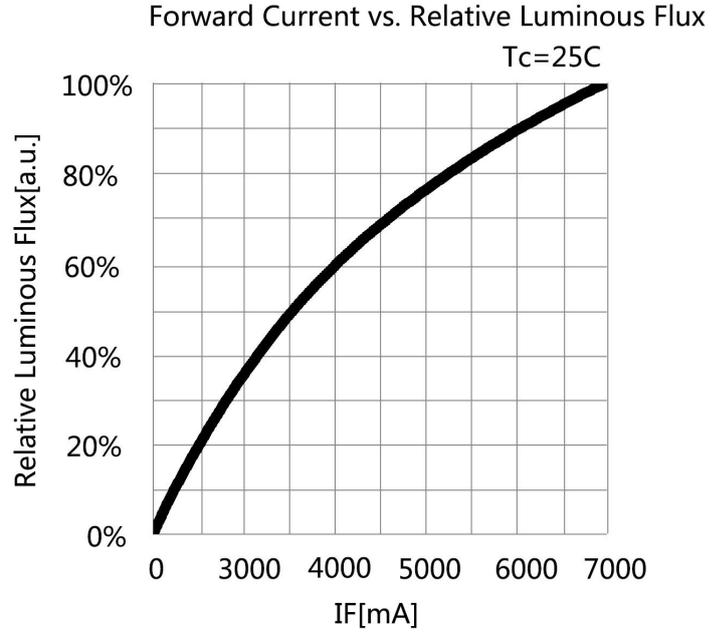
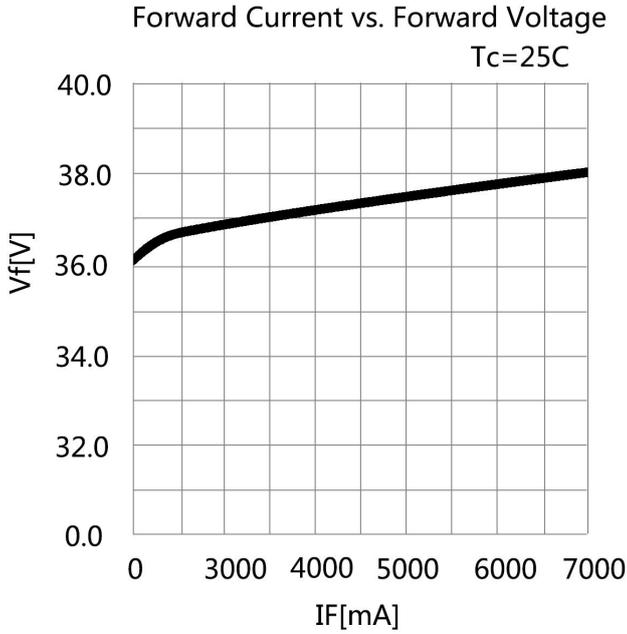
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	IR	36	38	40	V	IF=7000mA
Light Power	PO	IR	100000	110000	120000	mW	IF=7000mA
Peak Wavelength	WLP	IR	845	850	855	nm	IF=7000mA
Reverse Current	IR		0		10	μA	VR=40V
Viewing Angle	2θ1/2				140	deg	IF=7000mA
Recommend Forward Current	IF(rec)	IR			7000	mA	

#### Notes:

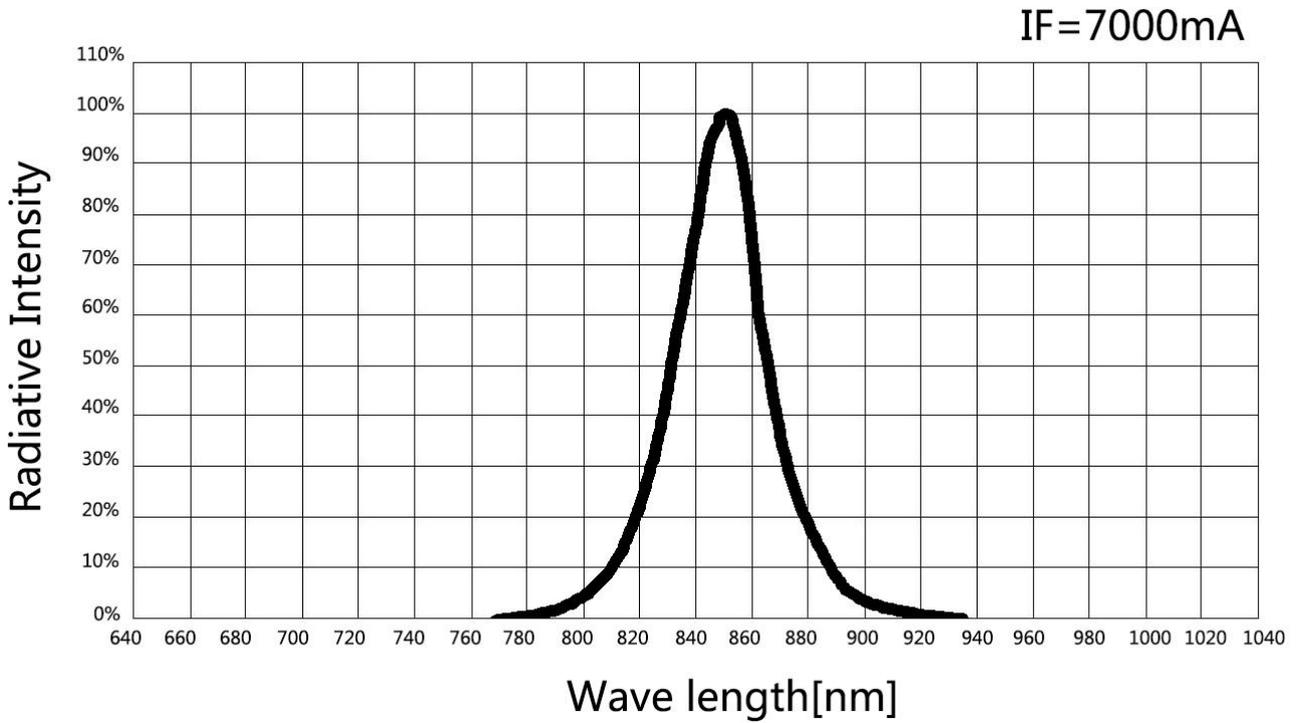
Measurement tolerance of forward voltage ±0.1V

## 5. Optical Character Curves

( 25 ° Ambient Temperature Unless Otherwise Noted )



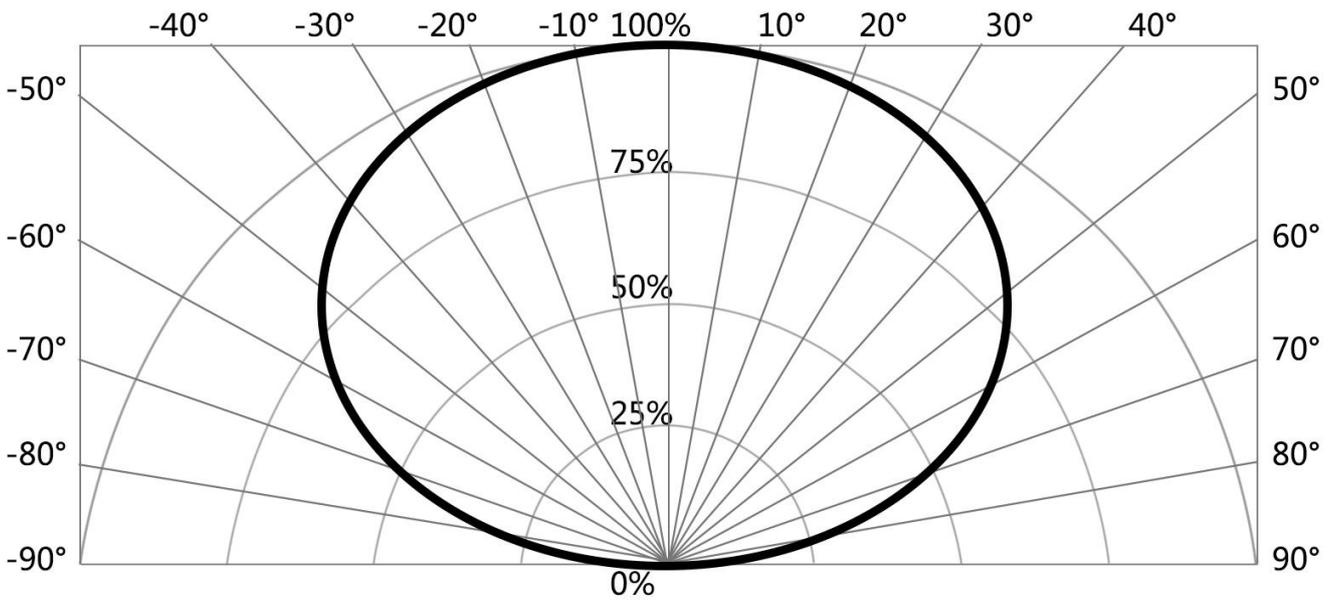
## 6. Spectrum Curves



## 7. Viewing Angle Curves

Radiation Characteristic

IF=7000mA



## 8.Cautions

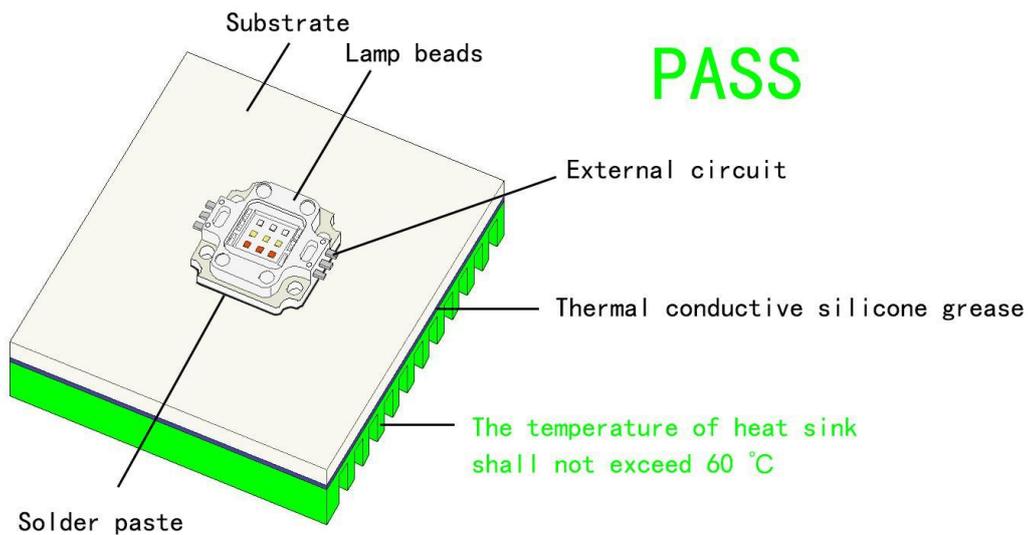
### 1. Electrostatic Treatment

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.



**PASS**

**OK**

