

PRODUCT SPECIFICATION



Part No.: WL-P300EP4242IR140-850
High Power LED

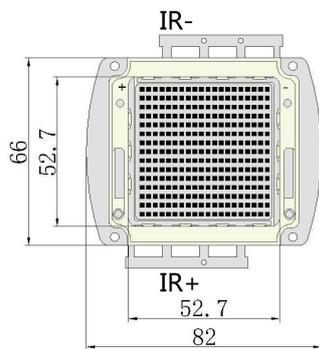
Catalog

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

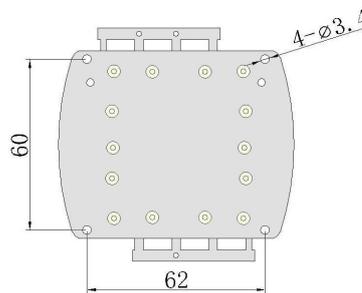
1. Product Features

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

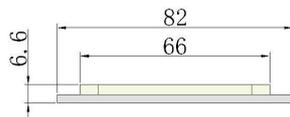
2. Dimensions



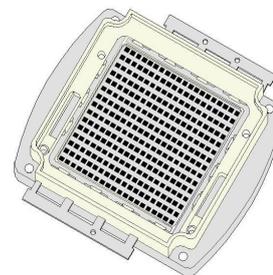
Top view



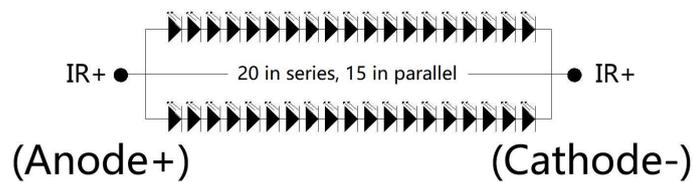
Bottom view



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	5250	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	5500	mA
Reverse Voltage	VR	31	V
Power Dissipation	PD	300	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

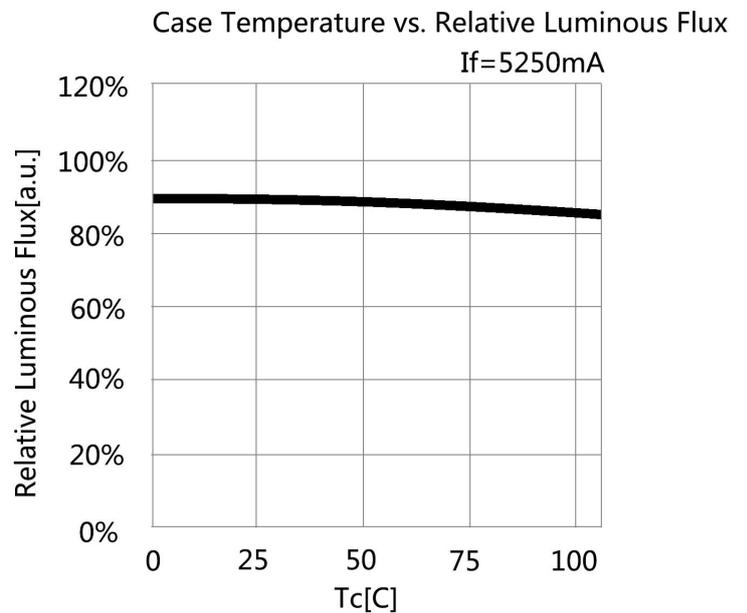
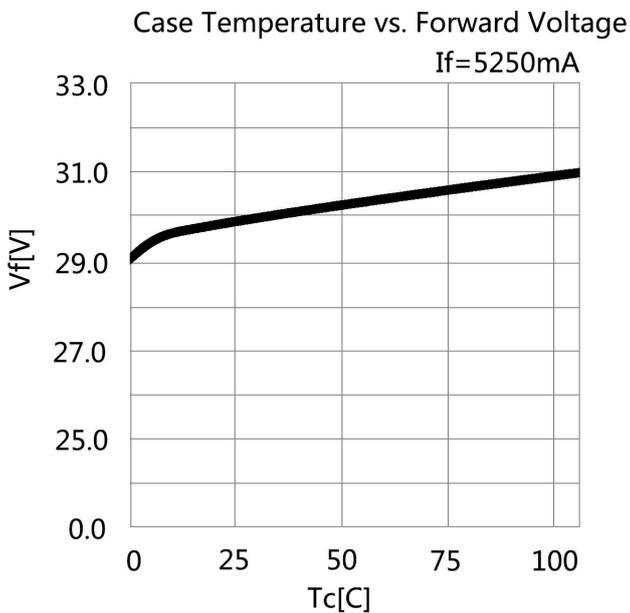
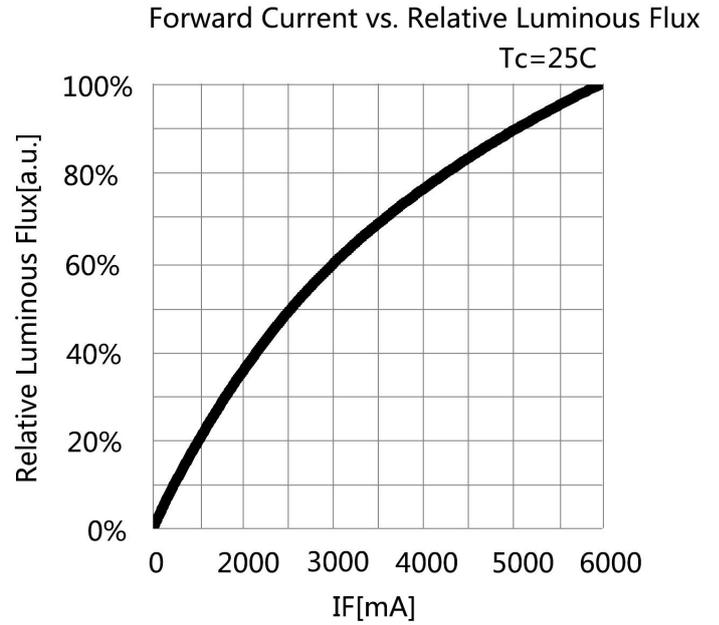
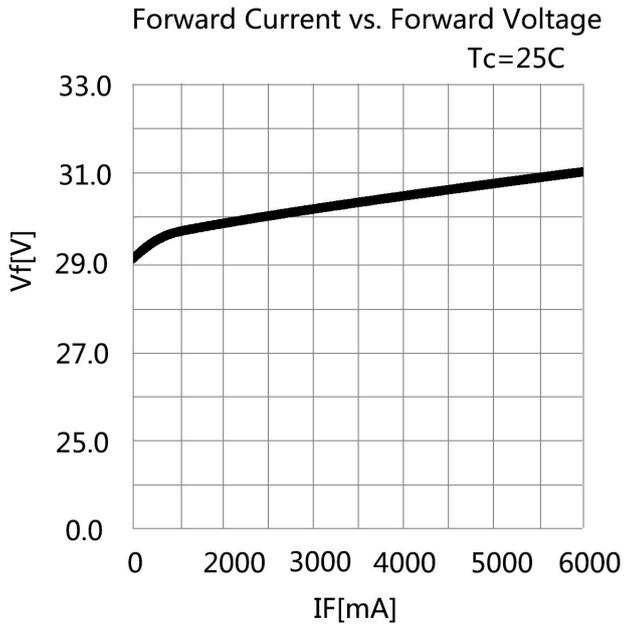
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	IR	29	30	31	V	IF=5250mA
Luminous power	PO	IR	60000	62500	65000	mW	IF=5250mA
Dominant Wavelength	WIP	IR	845	848	850	nm	IF=5250mA
Reverse Current	IR		0		10	μA	VR=31V
Viewing Angle	2θ1/2				140	deg	IF=5250mA
Recommend Forward Current	IF(rec)	IR			5250	mA	

Notes:

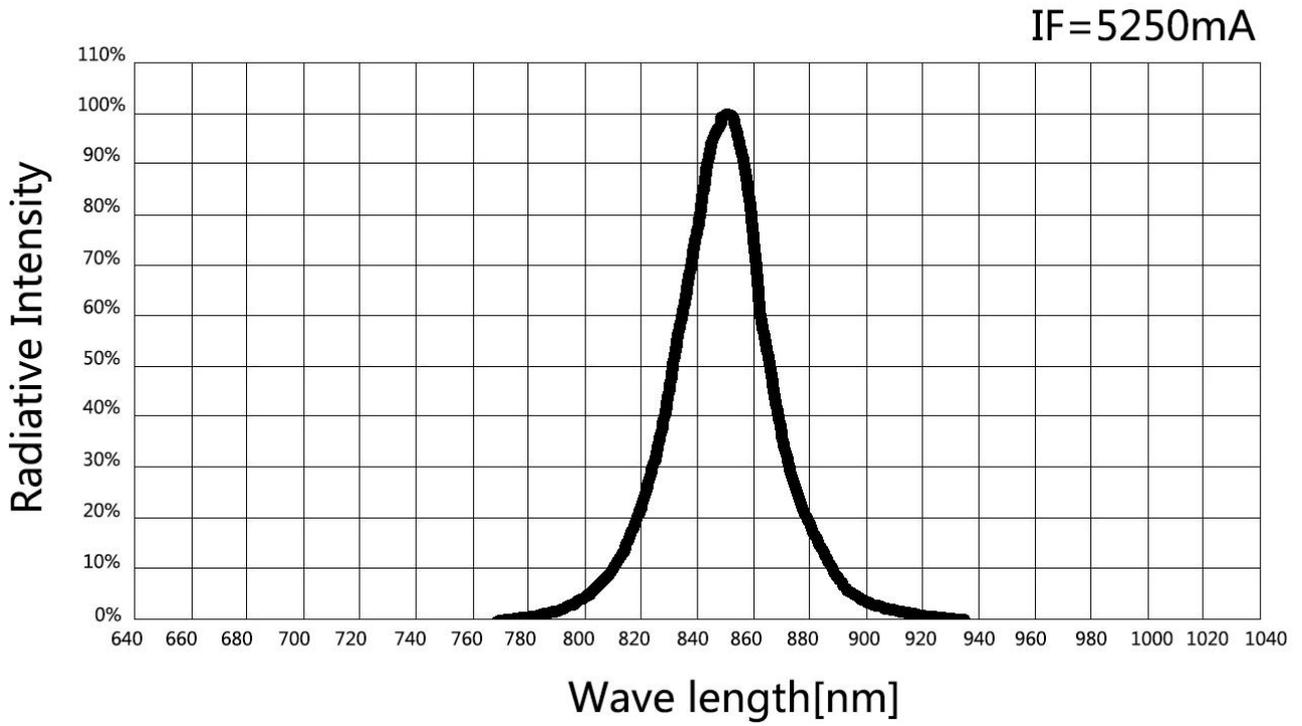
Measurement tolerance of forward voltage ±0.1V

5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)



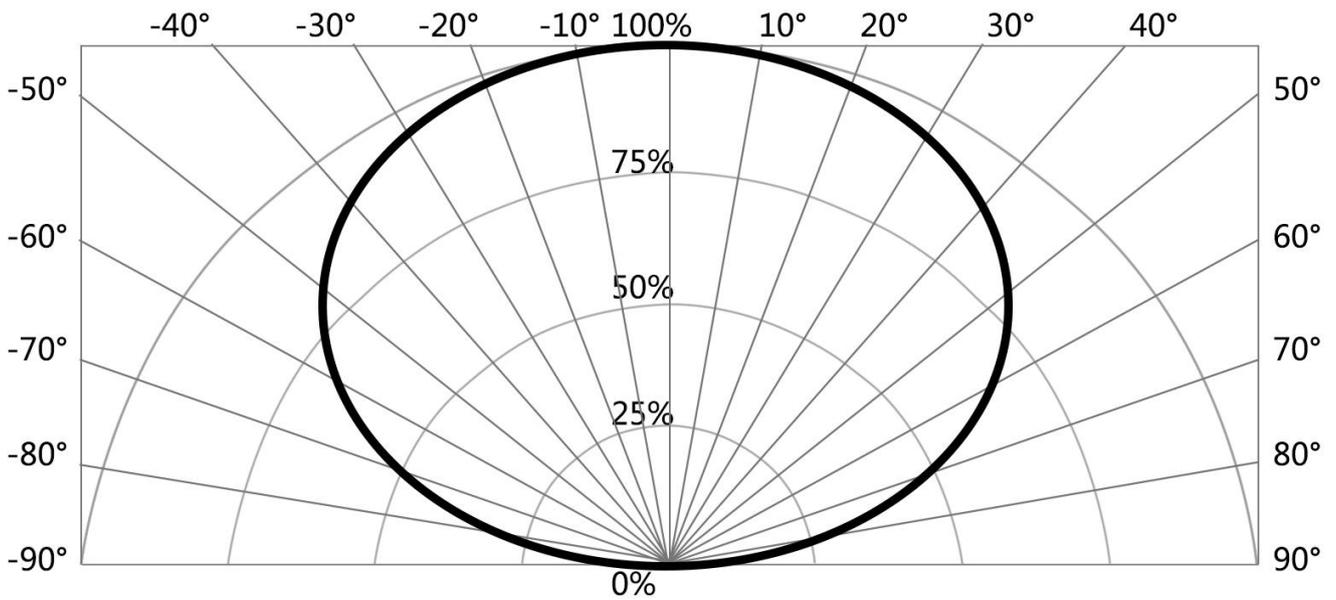
6. Spectrum Curves



7. Viewing Angle Curves

Radiation Characteristic

IF=5250mA



8.Cautions

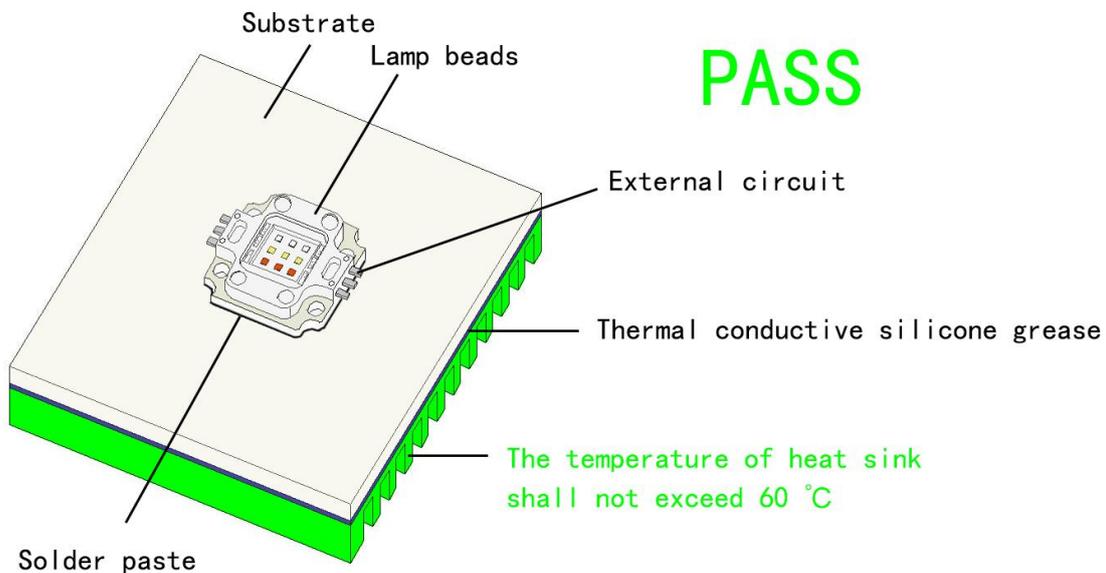
1. Electrostatic Treatment

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

