LUMIXTAR

PRODUCT SPECIFICATION

Part No.: WL-P10EP4242IR140-850

High Power LED

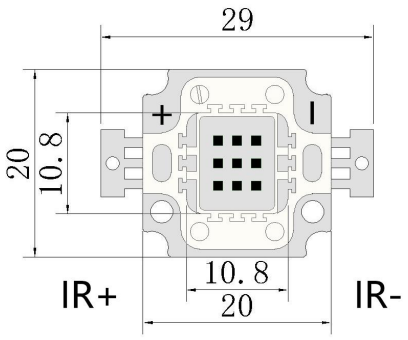
Catalog

LUMIXTAR

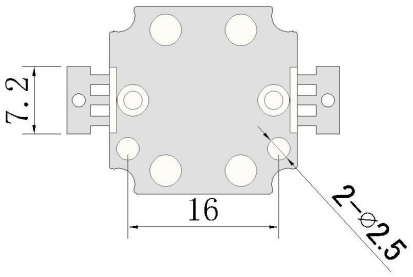
1.Product Features

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

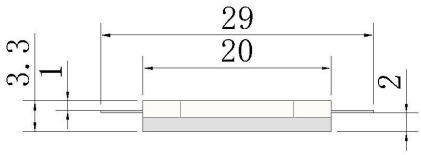
2.Dimensions



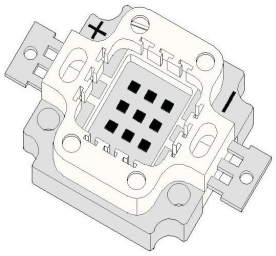
Top view



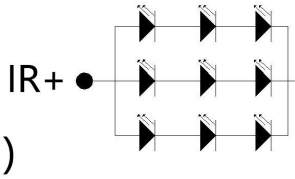
Bottom view



Side view



Perspective view



(Anode+) (Cathode-)

Circuit diagram

Notes:

1. All dimensions are in millimeters.

2. Tolerance is ±0.1mm unless otherwise noted.

LUMIXTAR

3.Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	1050	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1200	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	10	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +80°C	
Storage Temperature Range	TSTG	-35°C to +100°C	
Lead Soldering Temperature	TSOL	260°C	

4.Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	IR	4.0	4.5	5.0	V	I_F=1050mA
Radiant Power	PO	IR	1400	1500	1600	mW	I_F=1050mA
Peak Wavelength	WlP	IR	845	847.5	850	nm	I_F=1050mA
Reverse Current	IR				10	μA	V_R=5V
Viewing Angle	2θ1/2				140	deg	I_F=1050mA
Recommend Forward Current	IF(rec)	IR			1050	mA	

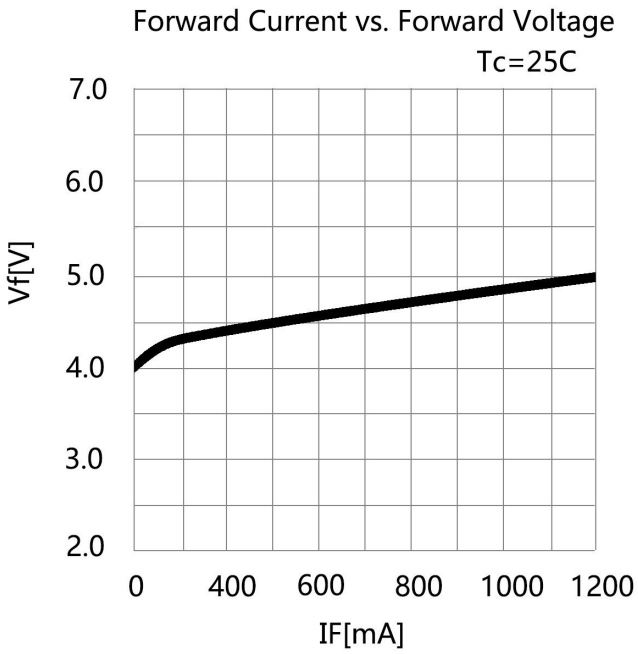
Notes:

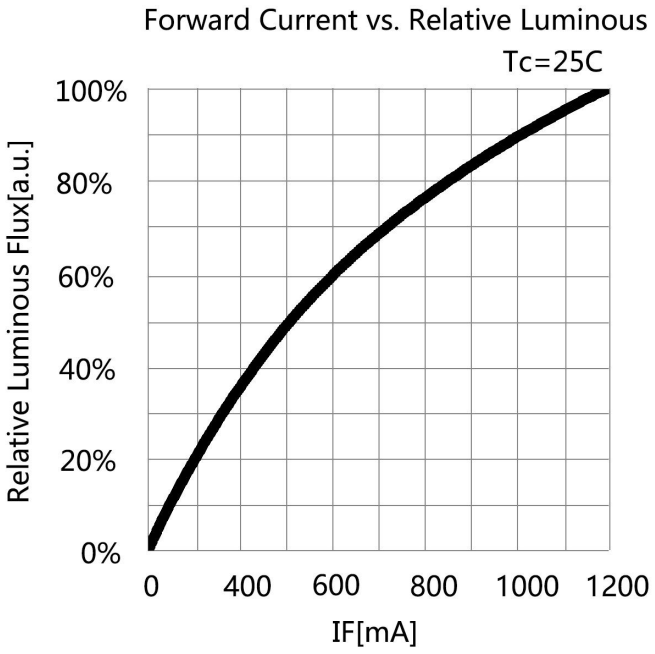
Measurement tolerance of forward voltage±0.1V

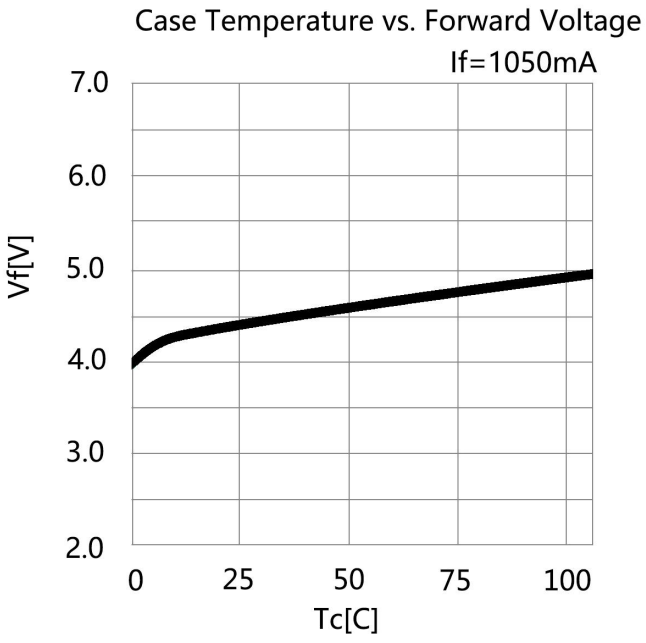
LUMIXTAR

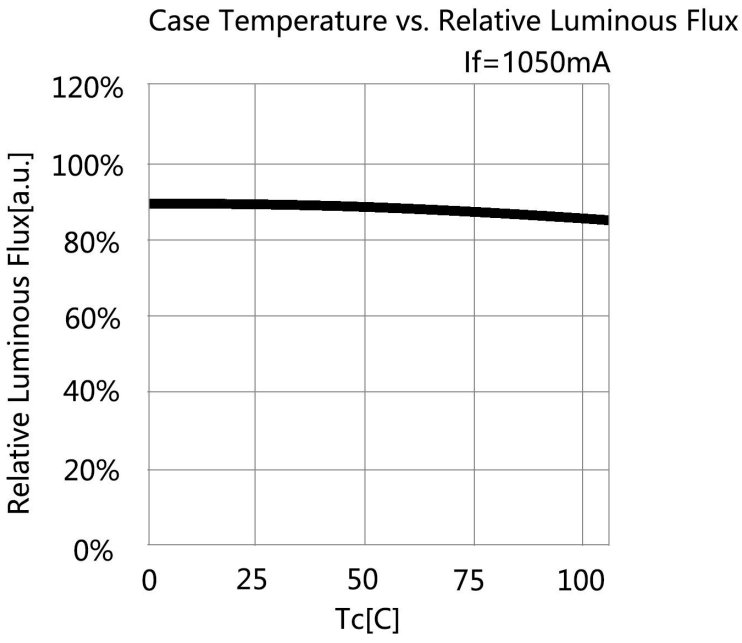
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

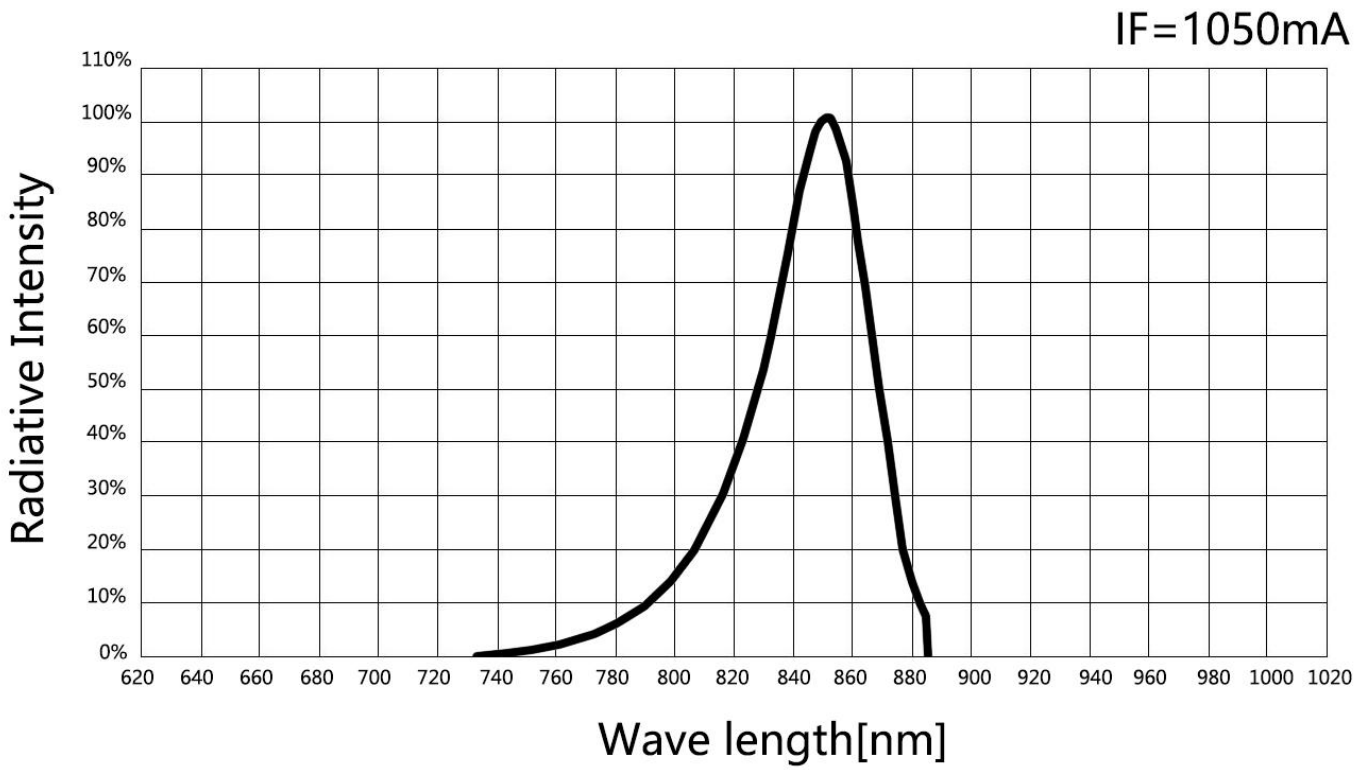




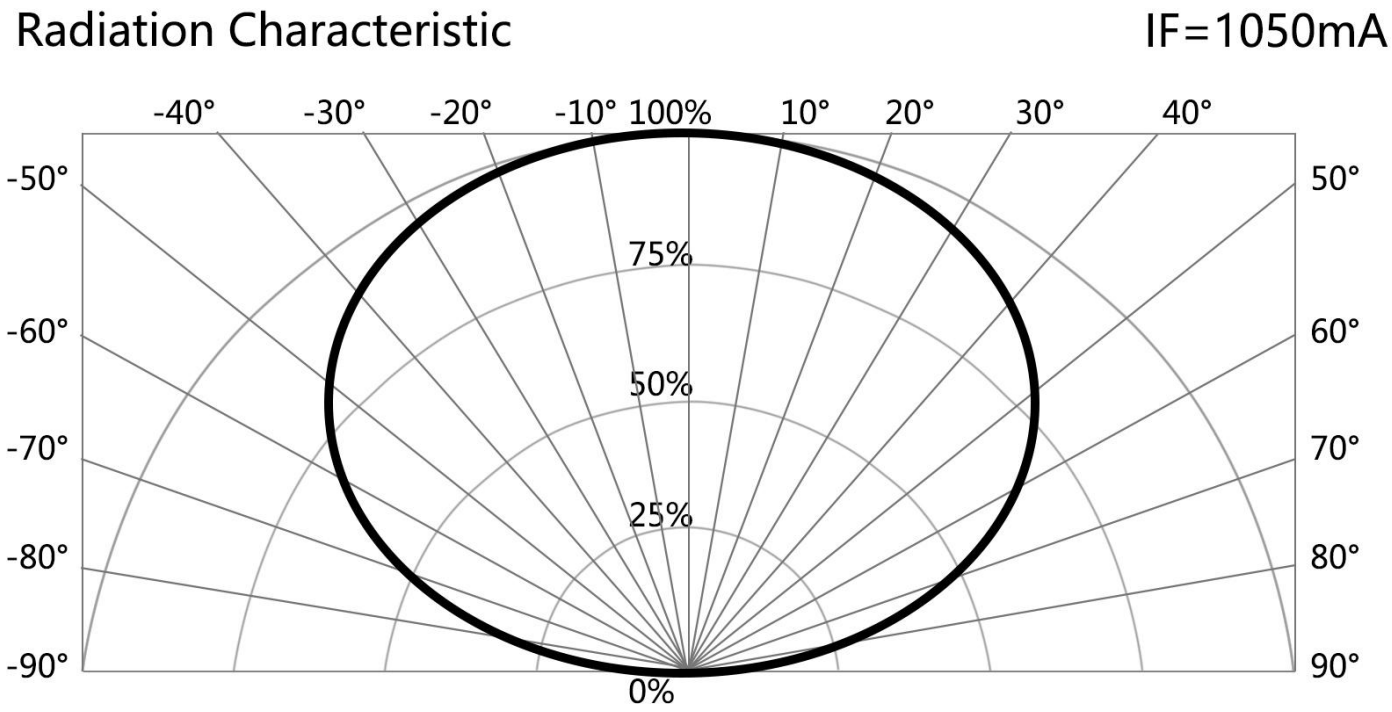




6. Spectrum Curves



7. Viewing Angle Curves



LUMIXTAR

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.)

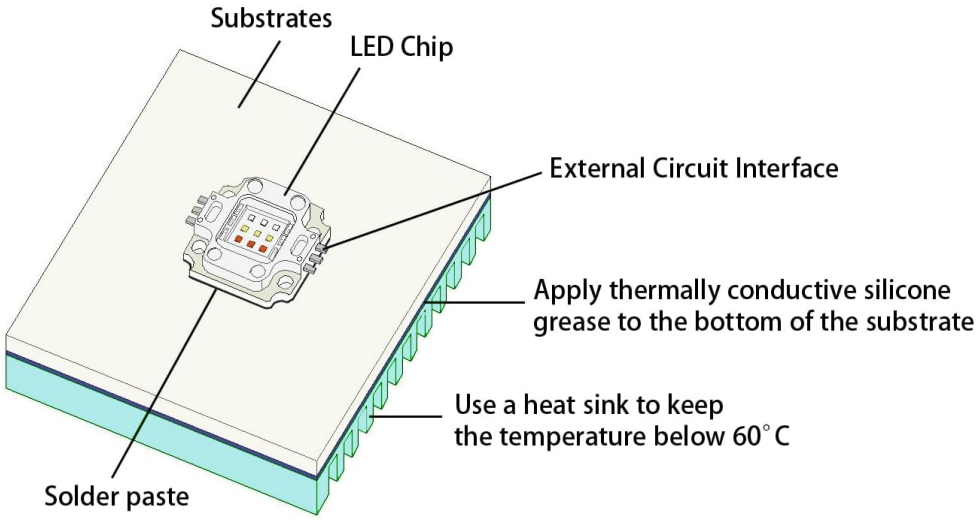
2. Heat Dissipation

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.

COB LED Chip Instruction Manual

Welding Reference Diagram



Attention

1.It is recommended that anti-static measures be taken during soldering and use.

2.To minimize the loss of LED Chip, please equip the product with a suitable heat sink.

3.The optimum working temperature range of the product is 40-60°C.
It is recommended that the working temperature of the product be controlled within a reasonable range.
Please use constant current driver.