

PRODUCT SPECIFICATION



Part No.: WL-P100EP4545RB140-440

High Power LED

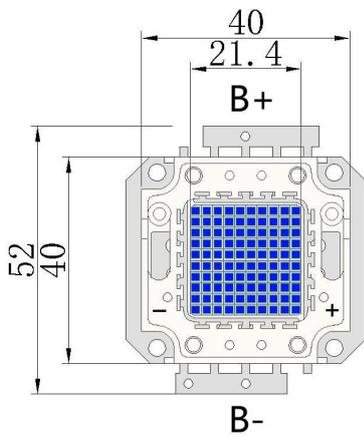
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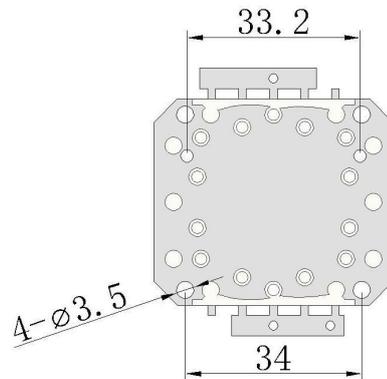
1. Product Features

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

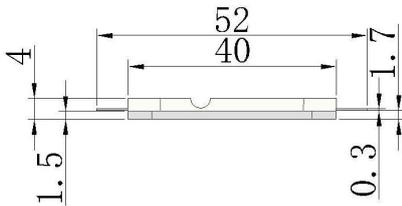
2. Dimensions



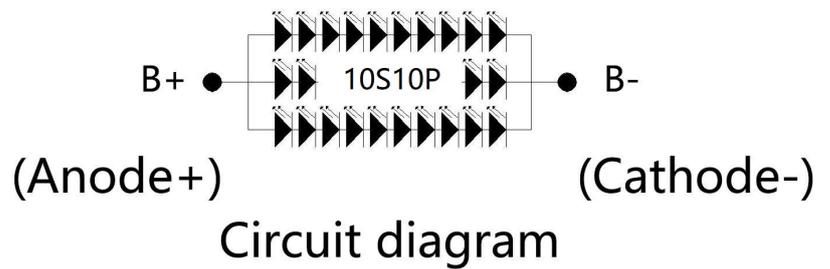
Top view



Bottom view



Side view



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	3700	mA
Reverse Voltage	VR	36	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	
Lead Soldering Temperature	TSOL	350°C	

4. Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	B	30	31	32	V	IF=3500mA
Luminous Flux	Φ	B	800	900	1000	LM	IF=3500mA
Dominant Wavelength	Wld	B	435	437.5	440	nm	IF=3500mA
Reverse Current	IR		0		10	μA	VR=36V
Viewing Angle	2θ1/2				140	deg	IF=3500mA
Recommend Forward Current	IF(rec)	B			3500	mA	

Notes:

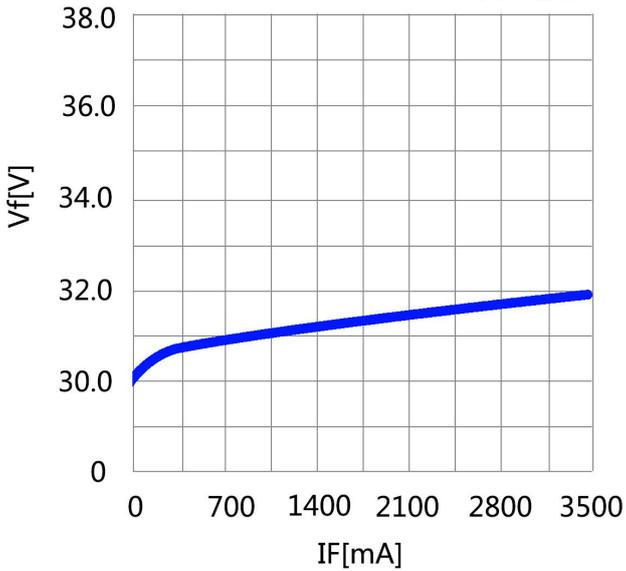
Measurement tolerance of forward voltage ±0.1V



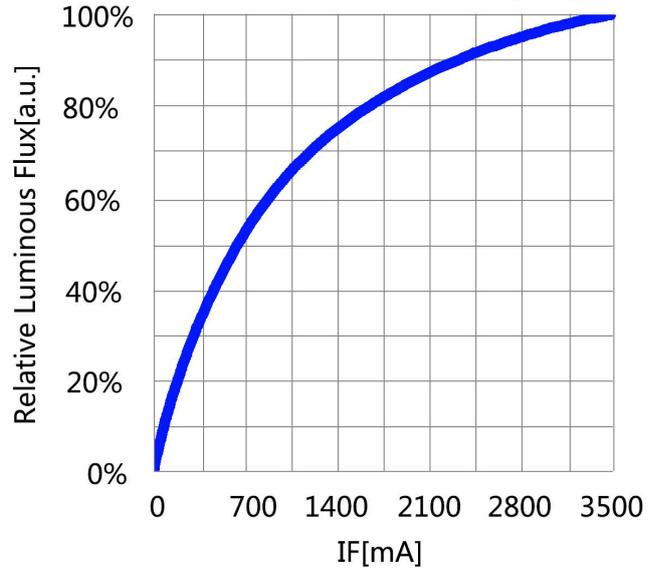
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

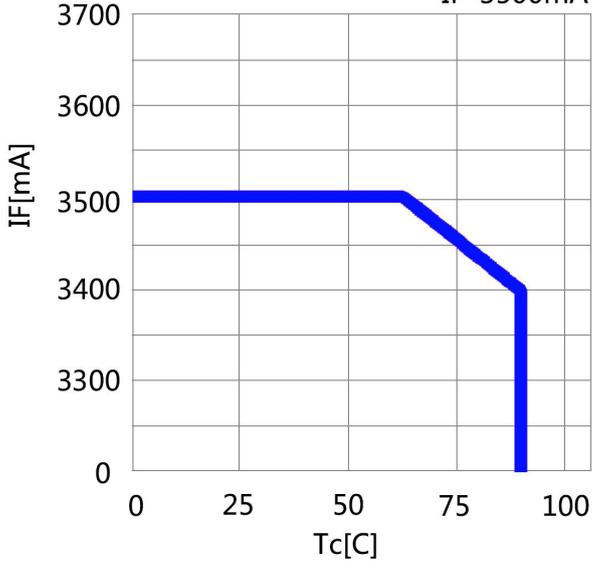
Forward Current vs. Forward Voltage
Tc=25C



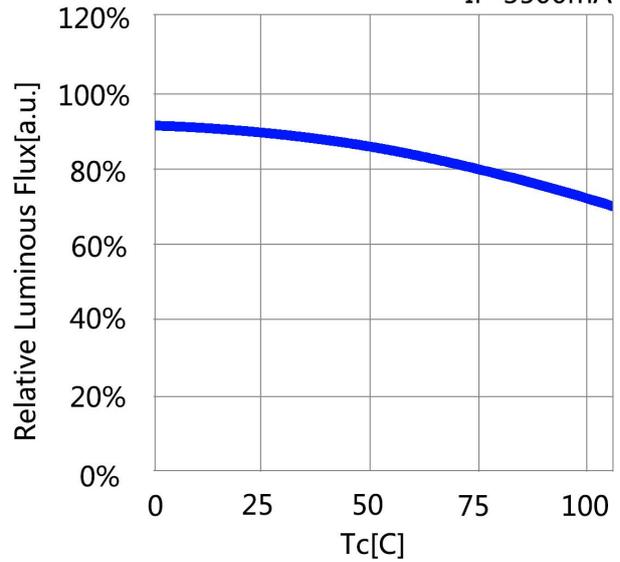
Forward Current vs. Relative Luminous Flux
Tc=25C



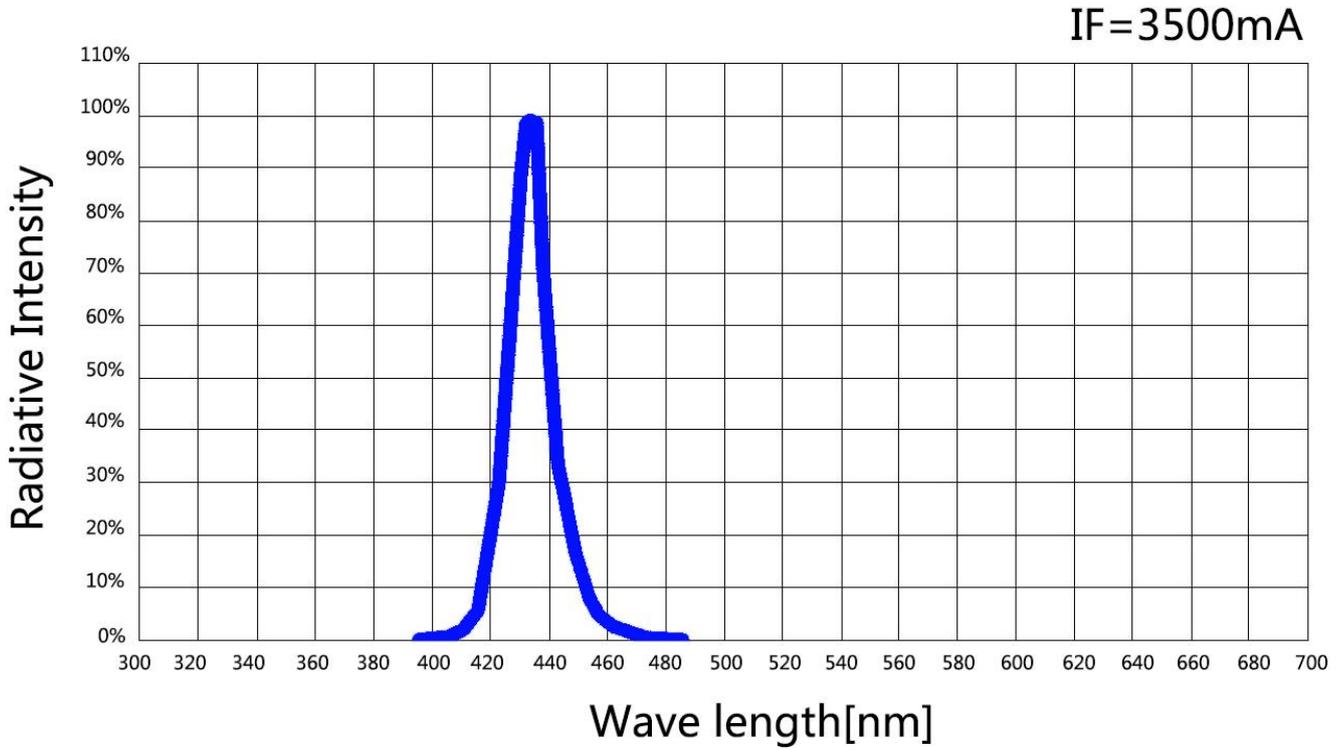
Case Temperature vs. Forward Current
If=3500mA



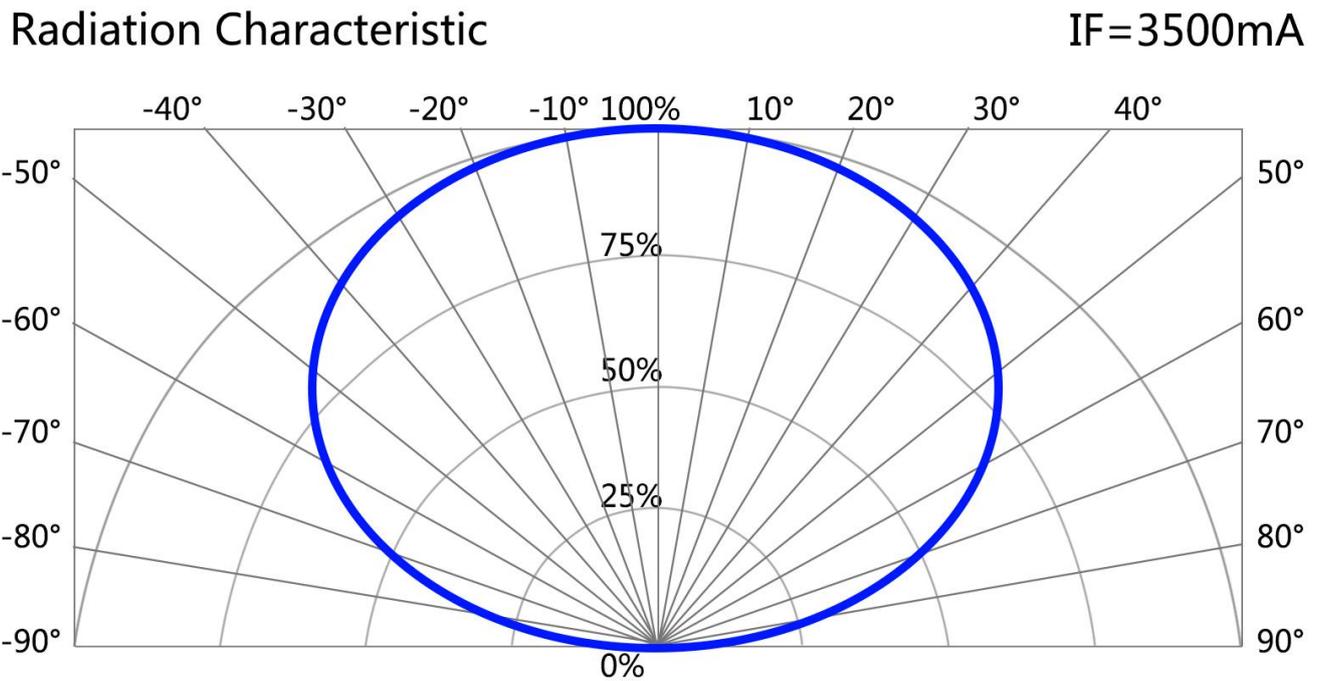
Case Temperature vs. Relative Luminous Flux
If=3500mA



6. Spectrum Curves



7. Viewing Angle Curves



8.Cautions

1. Electrostatic Treatment

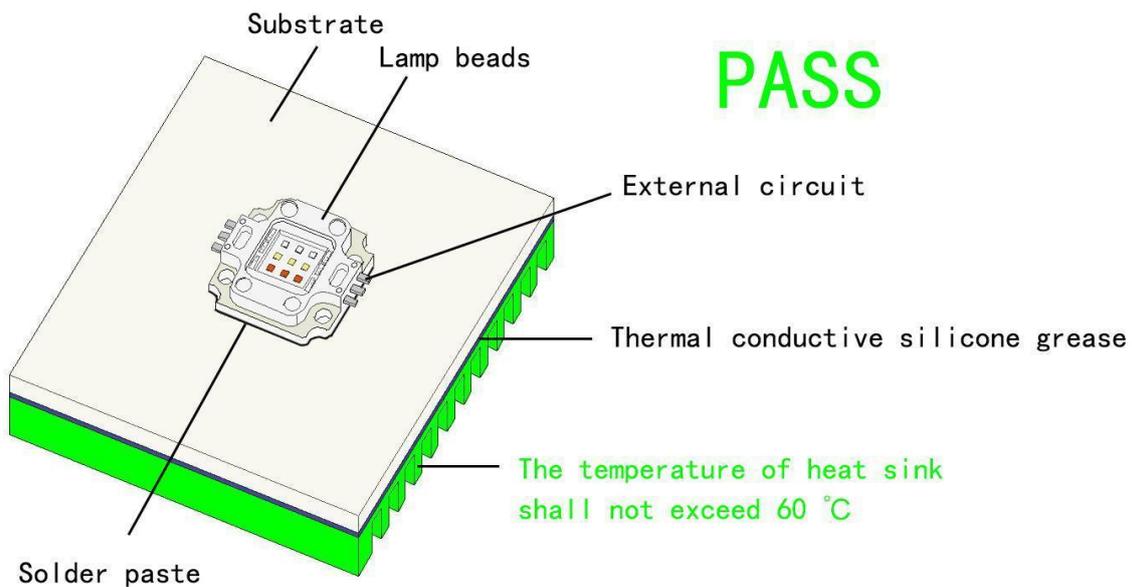
Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



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

