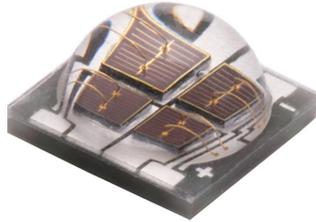


PRODUCT SPECIFICATION



Part No.: WL-5P5050EP120IR-920
SMD High Power LED

Catalog

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3. Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	700	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1000	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	3	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	1.3		1.6	V	IF=700mA
Radiant Power	PO	IR	300	400	500	mW	IF=700mA
Peak Wavelength	WIP	IR	920	923	925	nm	IF=700mA
Reverse Current	IR		0		10	μA	VR=5V
Viewing Angle	2θ1/2				120	deg	IF=700mA
Recommend Forward Current	IF(rec)	IR			700	mA	

Notes:

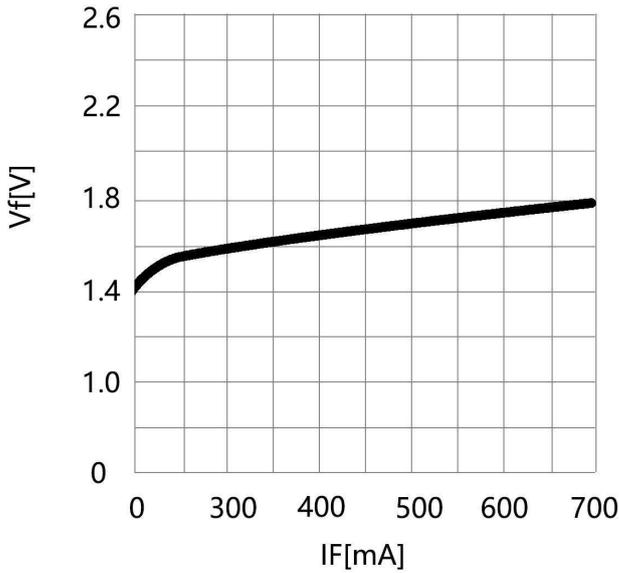
Measurement tolerance of forward voltage ±0.1V



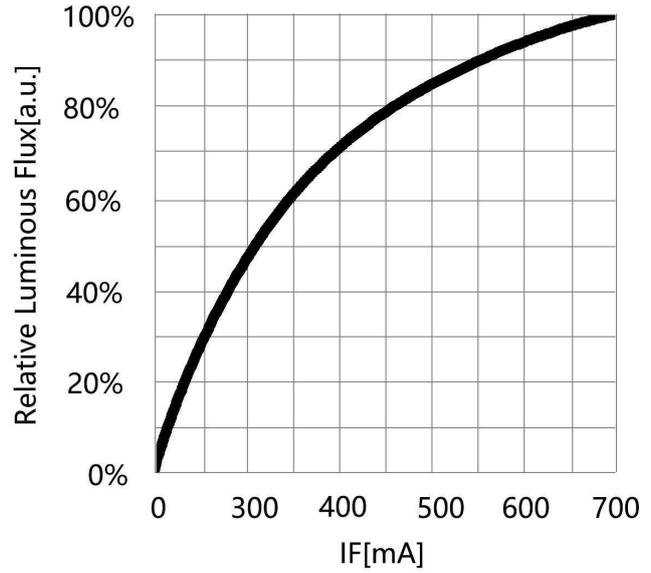
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

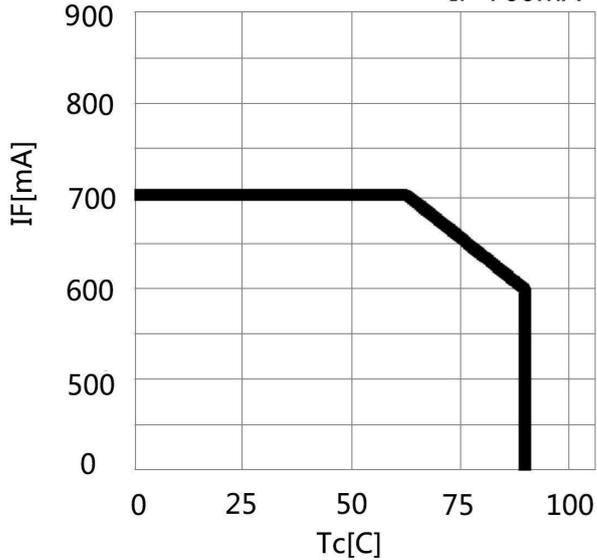
Forward Current vs. Forward Voltage
T_c=25C



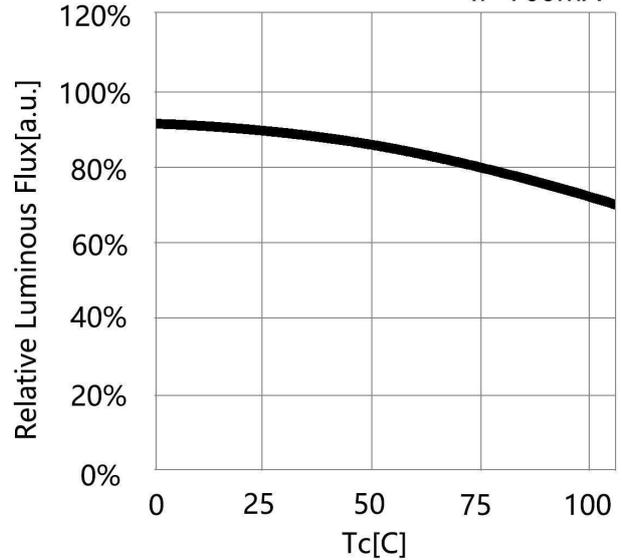
Forward Current vs. Relative Luminous Flux
T_c=25C



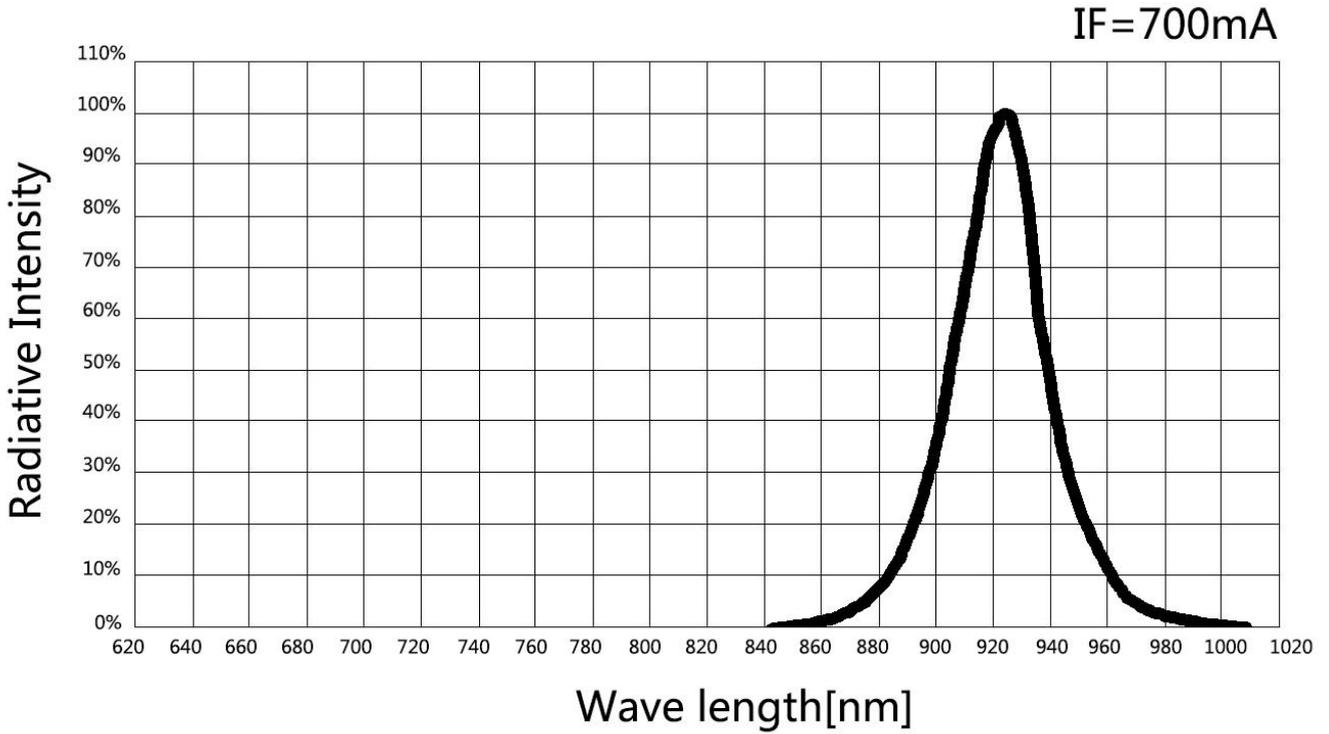
Case Temperature vs. Forward Current
I_f=700mA



Case Temperature vs. Relative Luminous Flux
I_f=700mA



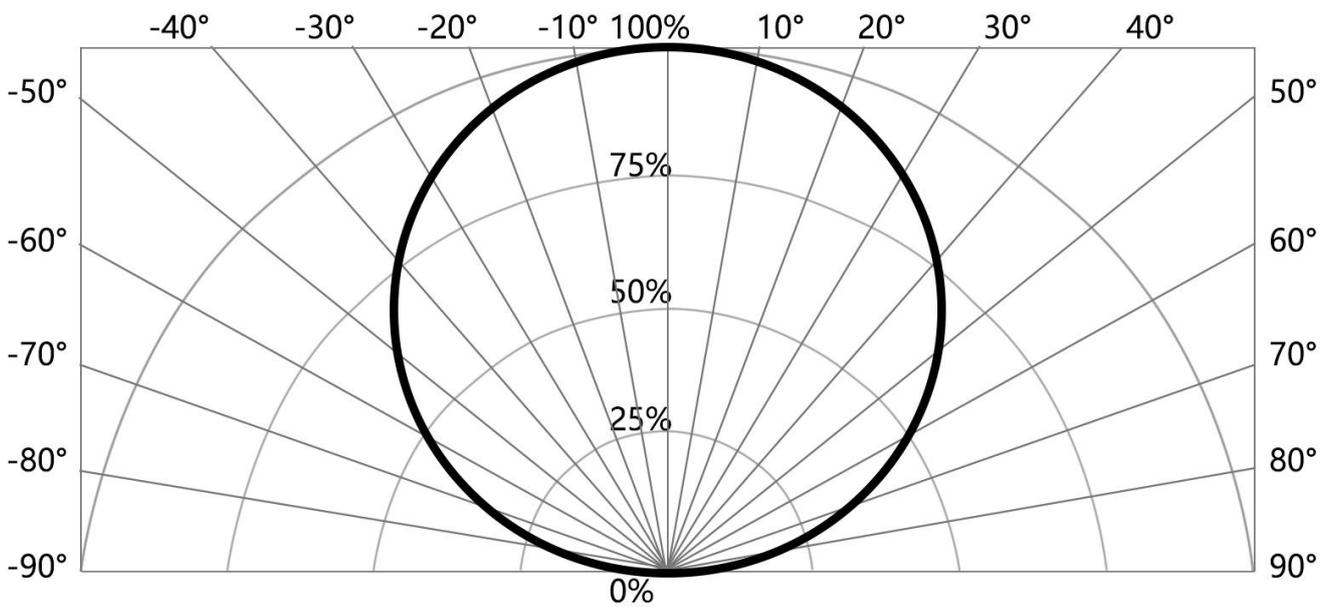
6. Spectrum Curves



7. Viewing Angle Curves

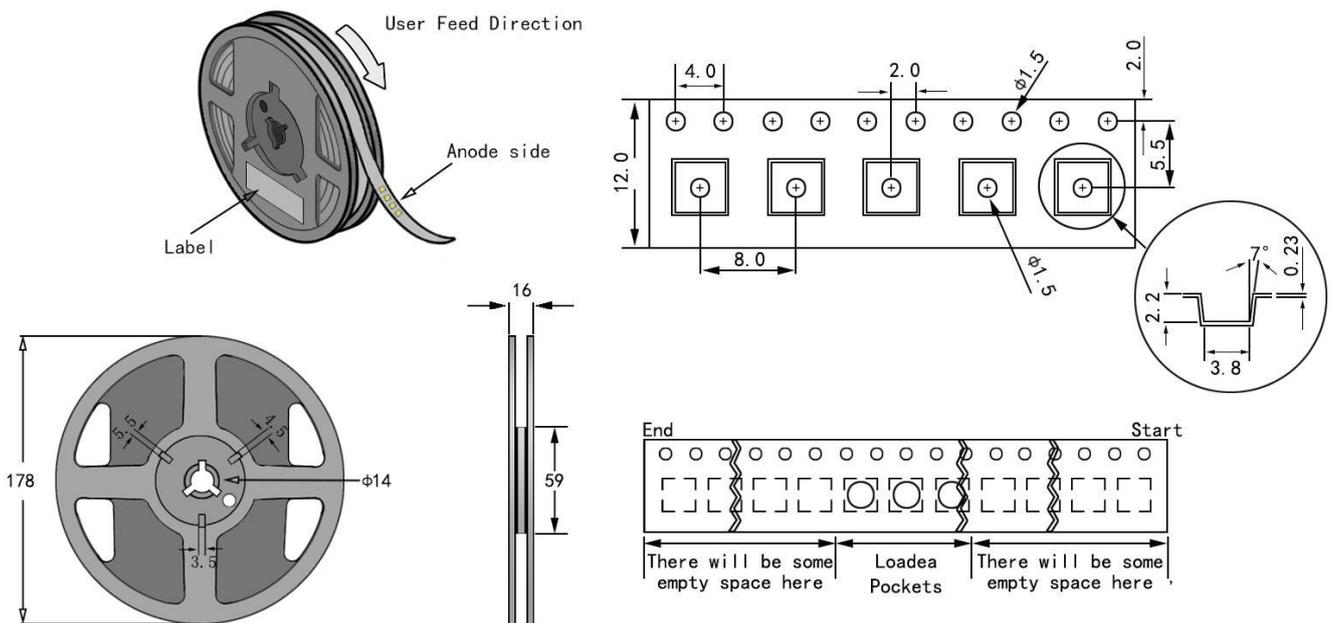
Radiation Characteristic

IF=700mA



8. Tape & Reel Packing

1. Recommend unpacked LED beads be welded within one day, if not, please vacuumize again and store in an environment of 20-35°C and 30-60% humidity. If can't vacuumize, please store LED beads in moisture proof box, control at 25°C ± 3°C, humidity 50-60%. If unpacked above 1 week, bake at 60 ± 5°C for 10-12 hours before weld.



Notes:

1. QTY: 700pcs/Reel
2. Tolerance ±0.2mm.
3. Package: P/N

10. Cautions

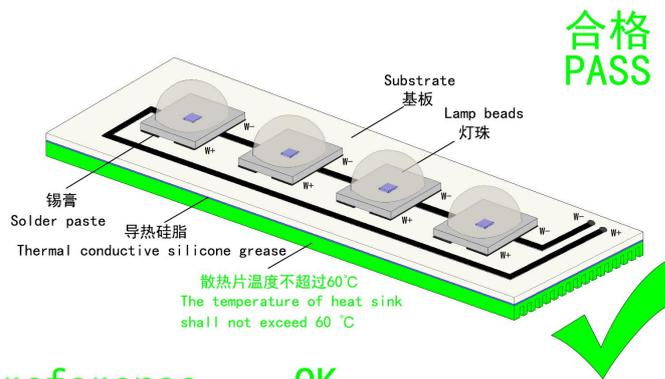
1. Electrostatic Treatment

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.



3. Installation Conditions

reference OK

A、 Do not exert any pressure on the LED area during the use of the led beads. If the machine is used to take materials, select a suction nozzle of reasonable size, such as below:

