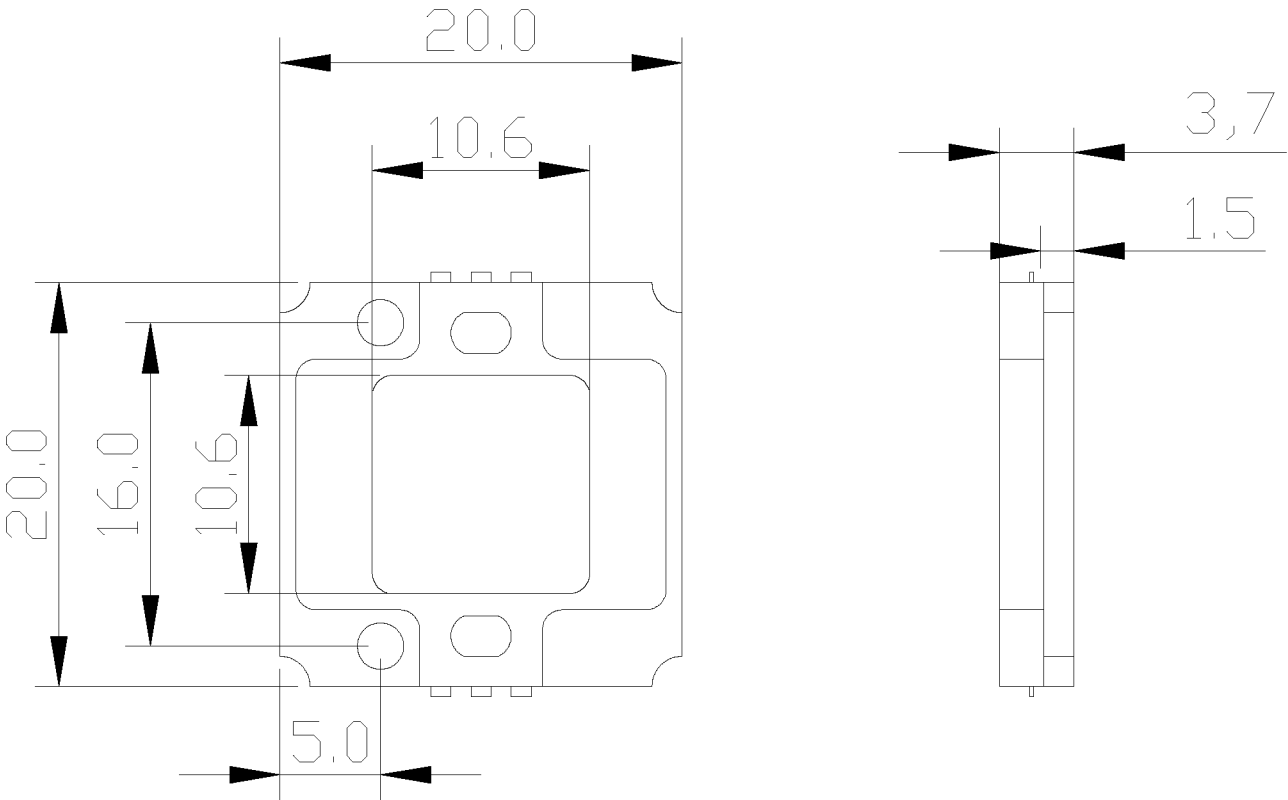


Production Specification

Model :	KP10WAACS100	
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Outline dimensions:



Unit	Tolerance	Die material	Lens color	Emission color
mm	±0.2mm	InGaN	White	White

Remark: P/N & Model in samples approval sheet can be used to inquire, please provide corresponding P/N& model if customer need .

Production Specification

Model :

KP10RWAACS100

Photoelectricity Parameter

(Ambient temperature: 25℃ humidity: RH60%)

Item	Symbol	Test condition	Min	Type	Max	Unit
Forward voltage	VF	IF=307mA	-30-	32.5	-35-	V
Reverse current	IR	VR=5V	—	—	10	μA
(Light) ϕ	IF=3	07mA	--	510	--	Lm
Color temperature	CCT	IF=307mA	--	--	--	K
Spectrum line half width	$\Delta\lambda$	IF=307mA	—	—	—	nm
ESD Withstand limit	ESD	--	--	—	—	V

Remark: The tolerance of intensity:±15%, The tolerance of wave length:±1nm, The tolerance of forwards voltage: ±0.05V. Only reference for above data when testing.

Absolute Maximum Rating

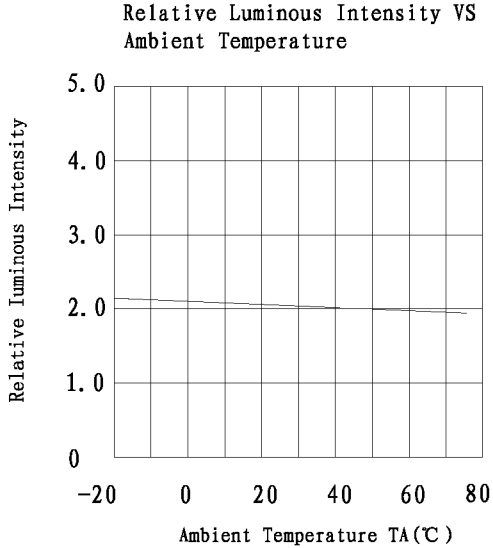
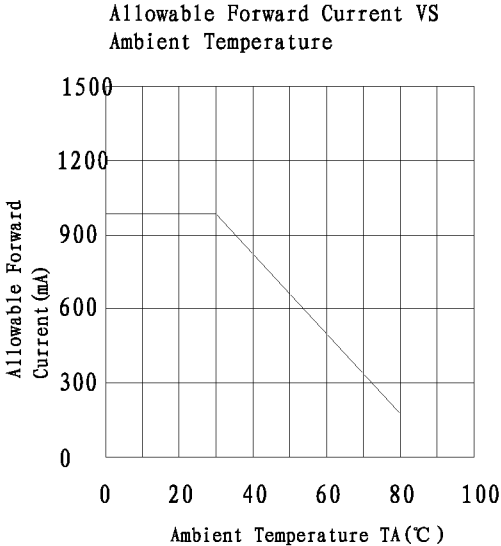
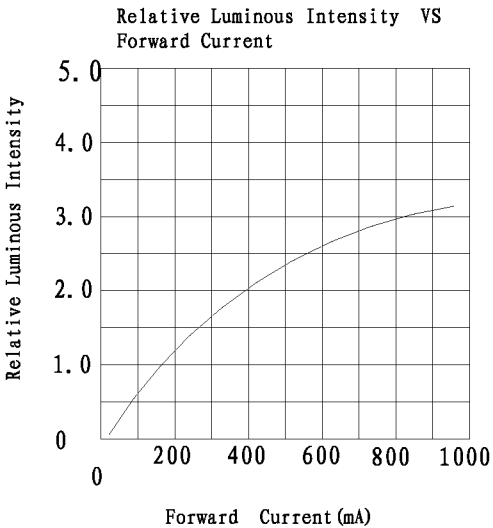
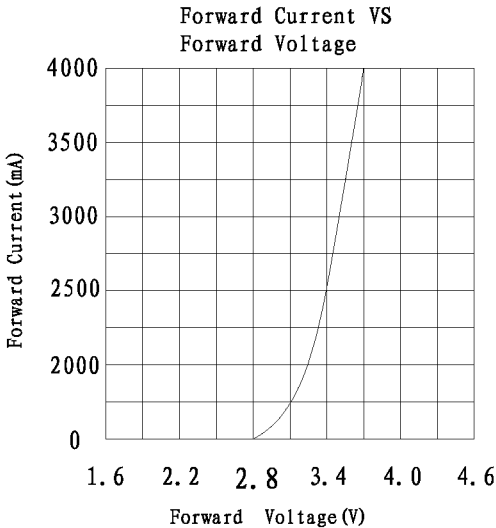
(Ambient temperature: 25℃ humidity: RH60%)

Item	Symbol	Value	Unit	Remark
Forward Current	IF	307	mA	---
Peck forward current	IFM	5000	mA	F=1KHZ, (duty cycle) 1/10
Reverse Voltage	VRP	5	V	---
Power Dissipation	Pm	10000	mW	---
Operation temperature	Tamb	-40 +65	℃	---
Storage temperature	Tstg	-40 +100	℃	---
Soldering temperature	Tsol	260	℃	Wave soldering, 3mm out of physical body, ≤3S

Production Specification

Model :	KP10WAACS100	
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Typical photoelectricity characteristic curve chart



Production Specification

Model :

KP10WAACS100

Reliability Test Project

Description	Item	Test criterion	Test condition	Test time	Qty	Fail qty
Life test	Life test(room temperature)	JIS7021:B4	Ta=25°C±5°C, IF=700mA	1000Hrs	22	0
Ambience test	High temperature store	JIS7021:B10 MIL-STD-202:210A MIL-STD-750:2031	Ta=80°C±5°C	1000Hrs	22	0
	Low temperature store	JIS7021:B12	Ta=-35°C±5°C	1000Hrs	22	0
	High temperature/ humidity test	JIS7021:B11 MIL-STD-202:103D	Ta=80°C±5°C RH=85%	1000Hrs	22	0
	Cold / Heat strike test	JIS7021:B4 MIL-STD-202:107D MIL-STD-750:1026	30min -10°C±5°C←→100°C±5°C 5min 5min	50Cycles	22	0
	Cold and heat cycle test	JIS7021:A3 MIL-STD-202:107D MIL-STD-705:105E	5min 5min 5min -35°C~25°C~85°C~25°C 30min 5min 30min 5min	50Cycles	22	0

Judging criterion:

Item	Symbol	Experiment condition	Criteria	
			Min.	Max.
Forward Voltage	V _F	I _F =307mA	----	Initial Datex1.1
Reverse Current	I _R	V _R =5V	----	50μ A
Luminous Intensity	I _V	I _F =307mA	Initial Datex0.8	----

Production Specification

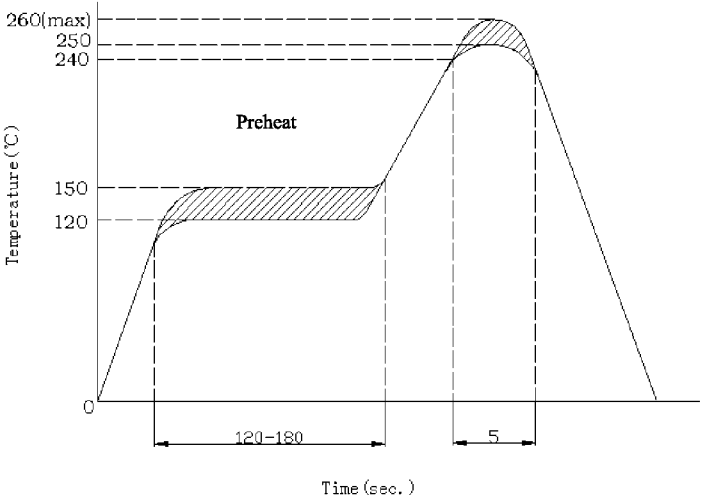
Model :	KP10WAACS100	
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Note

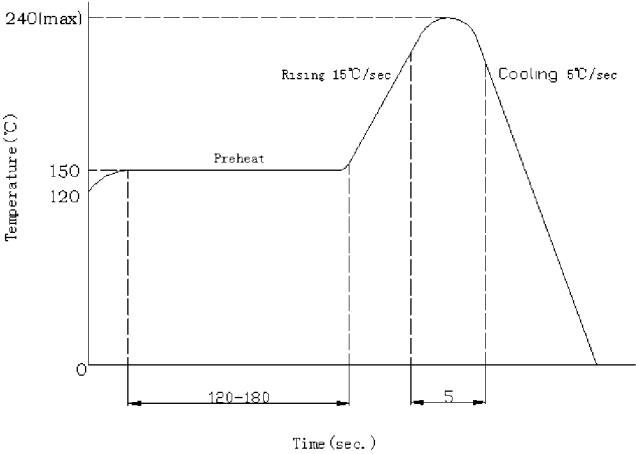
Manual soldering

The tip temperature of soldering iron don't exceed 330°C; soldering time don't exceed 3s and soldering position must be 3mm out of led colloid.

Soldering temperature curve chart (figure A、 figure B)



A



B

Production Specification

Model :

KP10WAACS100

ESD countermeasure

Static electricity and high volt can damage led, The production whose Die material is InGaN must strictly required to prevent ESD, Must put on static glove and static fillet, Soldering tool and the cover of device must connect the ground, soldering condition follows the related stating of production specification manual.

Protecting countermeasure when over current

Need add the protecting resistor in circuit in order to avoid damaging led due to big current and voltage fluctuation.

LED installation method

- 1) Pay attention to the led polarity and avoid installation wrong. Led can't be close to eutermic component, work condition should tally with it's specification.
- 2) Don't install the LED under the condition of the led pin deformation.
- 3) The led bracket don't load any pressure when installing the led into PCB or fitting hole.
- 4) Must avoid any strike and force on led before the soldering temperature return to room temperature.

Storage time

- 1) Led can be stored for a year under the condition: the temperature of 5°C ~ 35°C and humidity of RH60%, These production must be re-inspected and tested before use if their storage time exceed a year.
- 2)

If led is exposed in air for a week under the condition: the temperature of 5°C ~ 35°C, humidity of RH60%, must place the led in the ambience of 65°C±5°C for 24 hours and use it in 15 days for best.

Cleaning

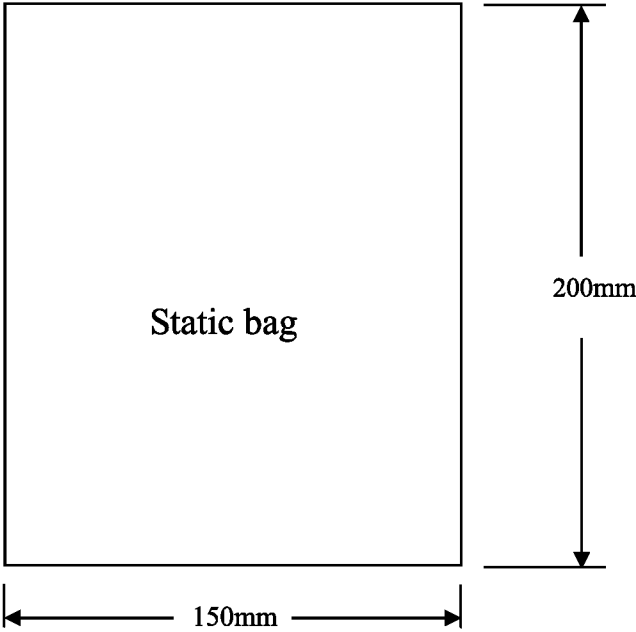
Be careful of some chemical results in the led colloid fades and damage when using chemical clean the led, such as chloroethylene, acetone etc. can use ethanol to wash or soak led but the time don't exceed 3 minutes.

Production Specification

Model :	KP10WAACS100	
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Packing

(1) Packing material static bag



(2) remark:

LED LAMP			
P/N:		DATE:	
IV:	Vf:	WLD:	
QTY:		N. W. :	
<input type="text"/>			
<input type="text"/>			

(3) Qty/per bag: 500PCS(

Can change the qty according to actual status)

(4) Packing box

Remark: Decide detail packing box according to customer order or actual status.