



## Data Sheet

---

Customer: \_\_\_\_\_

Part No: CL-SFC3030DWWDBW-3K,6.5K-B-02

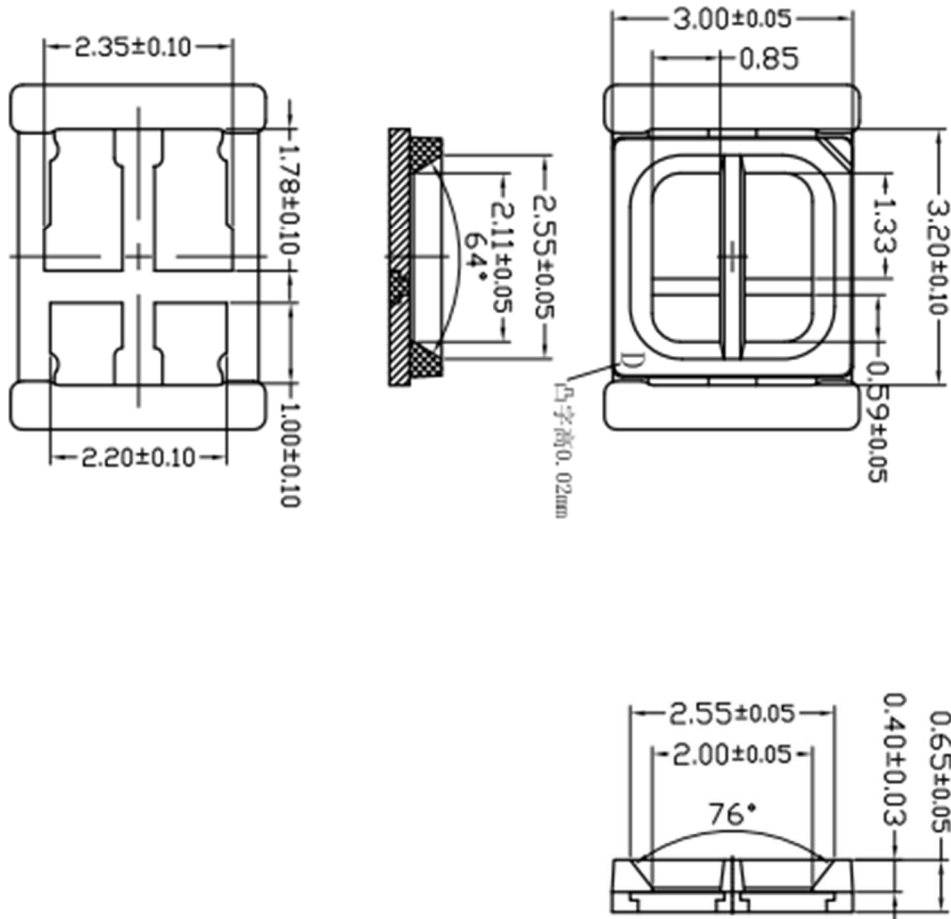
Sample No: \_\_\_\_\_

Description: \_\_\_\_\_

Item No: \_\_\_\_\_

Customer			
Check	Inspection	Approval	Date

Outline dimensions :



**Photoelectricity Parameter**

(Ambient temperature: 25°C humidity: RH150%)

Item	Symbol		Test condition	Min	Type	Max	Unit
Forward voltage	VF	ww	IF=150mA	2.8	—	3.4	V
		w	IF=150mA	2.8	—	3.4	
Reverse current	IR	WW	VR=5V	—	—	5	μA
		w	VR=5V	—	—	5	
Color Temperature	K	ww	IF=150mA	—	2700	—	K
	K	WW	IF=150mA	—	3000	—	K
Color Temperature	K	--	--	—	—	—	K
		WW	IF=150mA	—	4000	—	
Color Temperature	K	--		—		—	K
		w	IF=150mA	—	5000	—	
Color Temperature	K	--	--	—	—	—	K
		w	IF=150mA	—	6000		
Luminous intensity	IV	ww	IF=150mA	4.5	5.0	5.5	LM
		w	IF=150mA	4.5	5.0	5.5	LM
Color Rendering index	Ra	ww	IF=150mA	8.0	—	9.0	
		w	IF=150mA	8.0	—	9.0	
Viewing Angle	2θ 1/2	ww	IF=150mA	—	120	—	deg
		w	IF=150mA	—	120	—	

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 testin

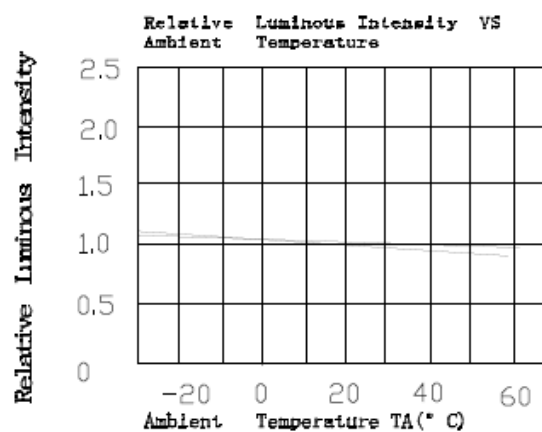
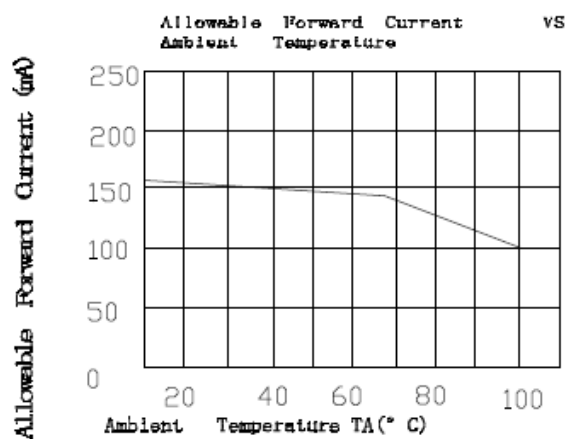
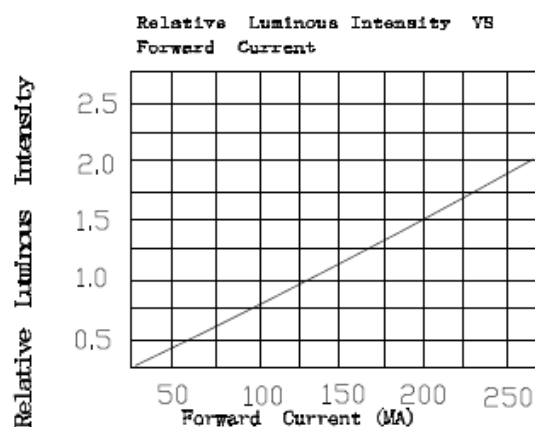
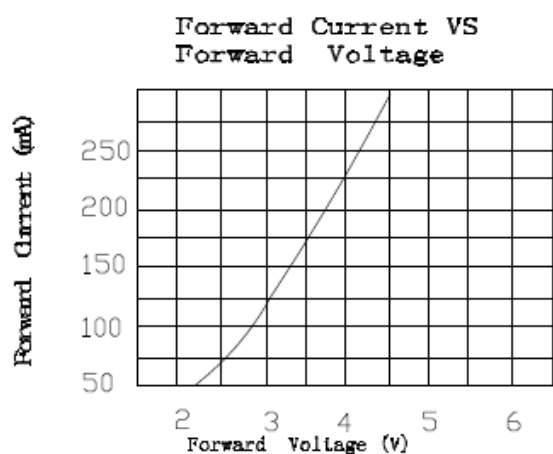
**Absolute Maximum Rating**

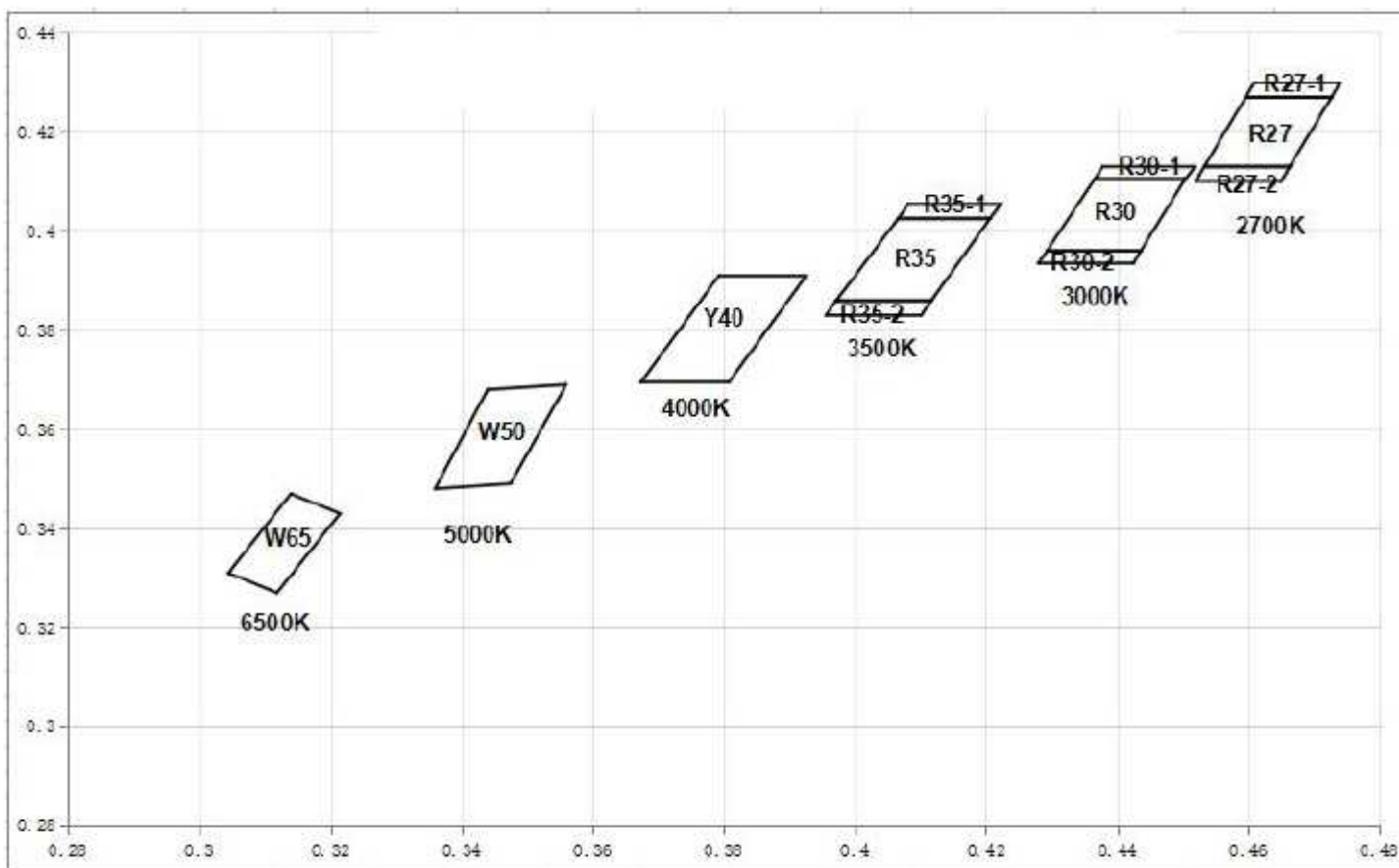
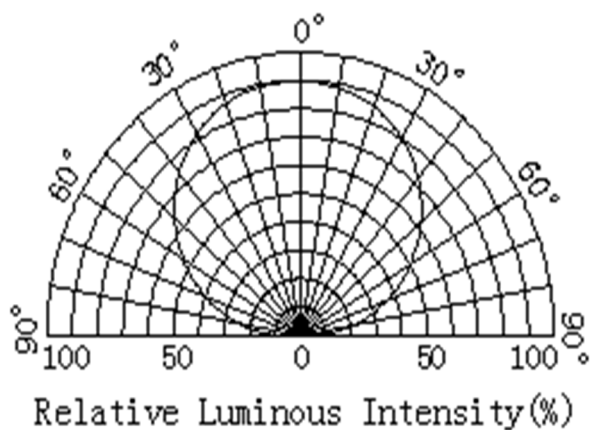
(Ambient temperature: 25°C humidity: RH150%)

Contents	Symbol	Value	Unit	Remark
----------	--------	-------	------	--------

Forward Current	IF	150	mA	---
Peck forward current	IFM	150	mA	F=1KHZ, (duty cycle)1/10
Reverse Voltage	VR	5	V	---
Power Dissipation	Pm	495	mW	---
Operation temperature	Tamb	-25 至+80	°C	---
Storage temperature	Tstg	-35 至+85	°C	---
Soldering temperature	Tsol	250	°C	Wave soldering, ≤3S

### Typical photoelectricity characteristic curve chart







## 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=150mA	1000Hrs	22	0
Ambience test	High temperature store	JIS7021:B10 MIL-STD-202:210A MIL-STD-750:2031	Ta=85°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=85°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~-35°C 30min 5min 30min 5min	50Cycles	22	0

### Judging criterion:

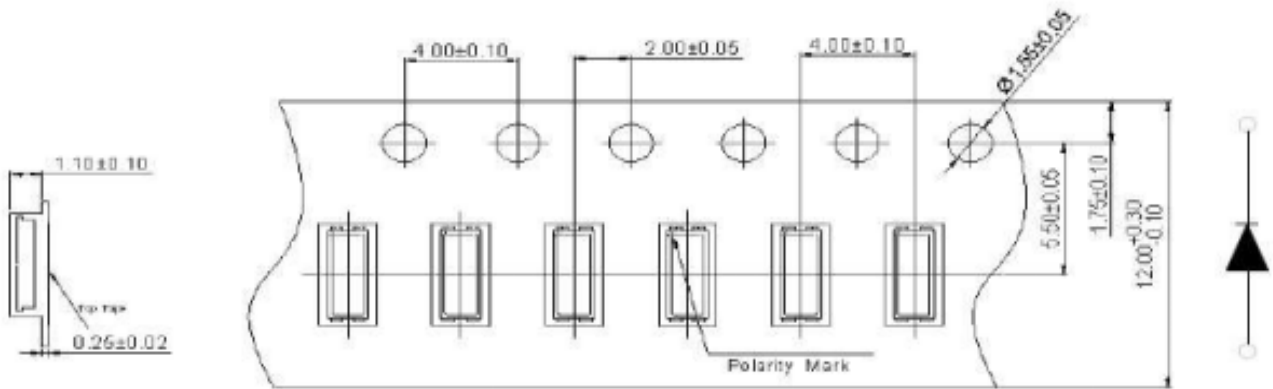
Item	Symbol	Experimentcondition	Criteria	
			Min.	Max.
Forward Voltage	V <sub>F</sub>	IF=150mA	----	Initial Datex1.1
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	----	5 μ A
Luminous Intensity	I <sub>V</sub>	IF=150mA	Initial Datex0.8	----

## Packaging

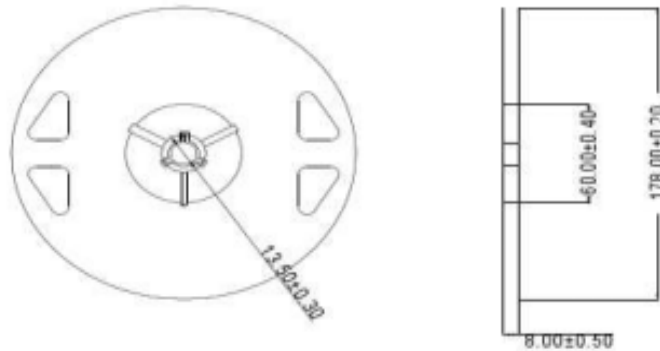
### Label

- IV: Luminous intensity rank
- VF: Forward voltage rank
- XY: Coordinate rank
- TC: Color temperature

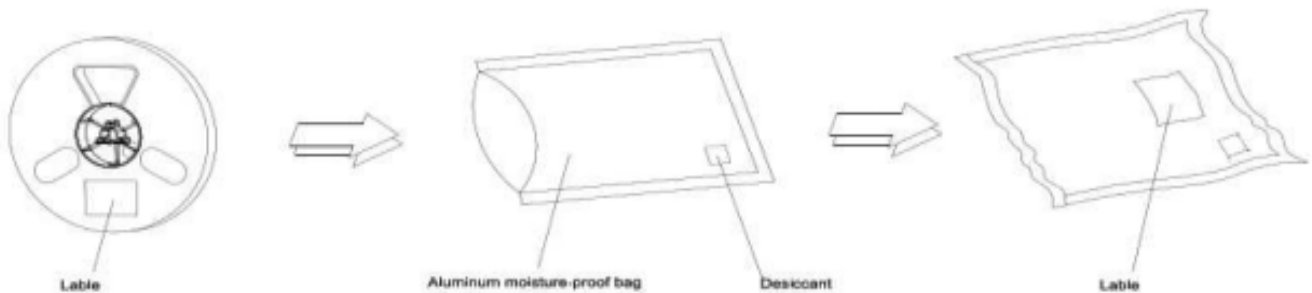
### Tape Specifications (Units : mm)



### Reel Dimensions



### Moisture Resistant Packaging



Note: The tolerances unless mentioned is  $\pm 0.1$  mm , Unit: mm 注: 标注公差为  $\pm 0.1$  mm , 单位: mm

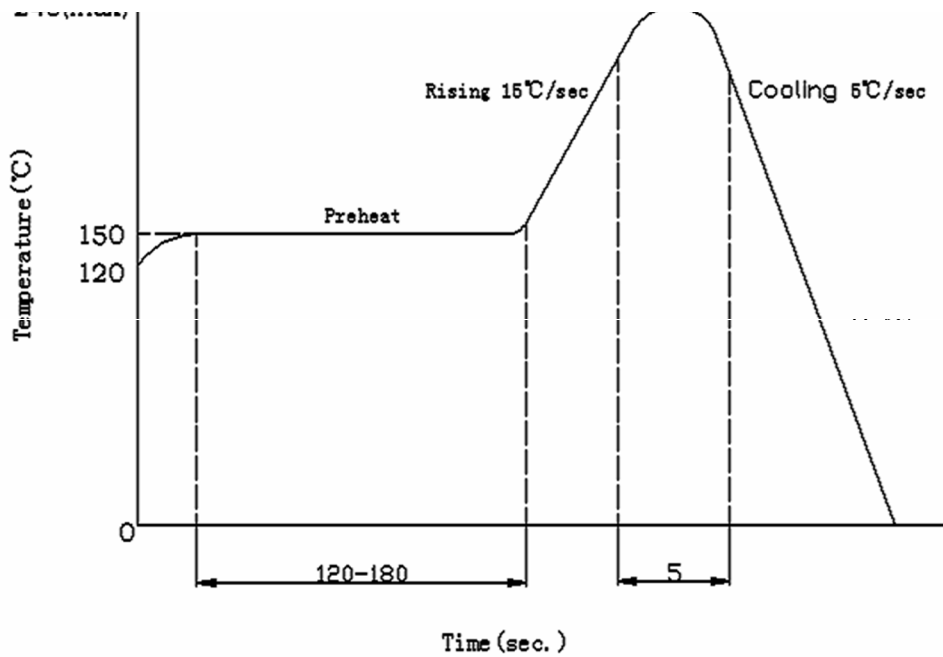
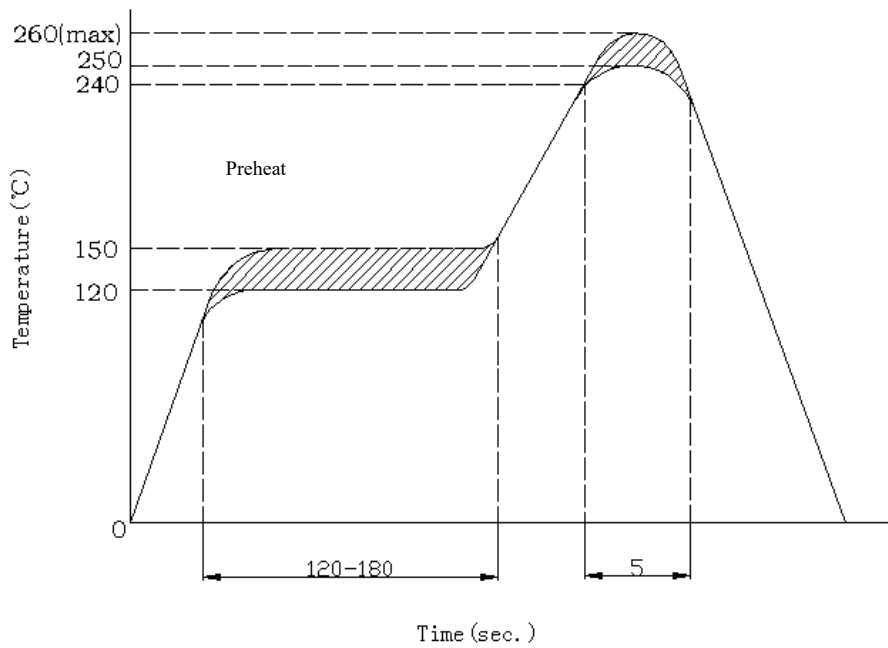


## Note

### 1. Manual soldering

The tip temperature of soldering iron don't exceed  $320^{\circ}\text{C}$ ; soldering time don't exceed 2s.

Soldering temperature curve chart (figure A、figure B)



## 2. ESD countermeasure

Static electricity and high volt can damage led, The production whose Die material is Green and blue 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.

## 3. 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.

## 4. 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) When assembly LED to stick into the aluminum board, LED surface can't bear any pressure.
- 4) Must avoid any strike and force on led before the soldering temperature return to room temperature。

## 5. Storage time

- 1) Led can be stored for a year under the condition: the temperature of  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$  and humidity of RH150%, 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  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$ , humidity of RH150%, must place the led in the ambience of  $65^{\circ}\text{C} \pm 5^{\circ}\text{C}$  for 24 hours and use it in 15 days for best。

## 6. 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.