



Data Sheet

Customer:	
Part No:	CL-SFC506DWW-3K-01
Sample No:	
Description:	
Item No:	

Customer				
Check	Inspection	Approval	Date	





Features:

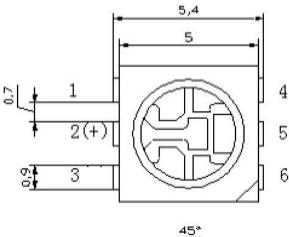
- . Reflow Solderable
- . High Luminous Intensity and Low Power Dissipation
- . Good Reliability and Long Life
- . Complied With RoHS Directive

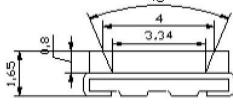
Technical Data Sheet

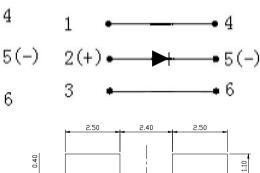
This product is generally used as indicator and luminary for electronic equipment such as household appliance, communication equipment, and dashboard.

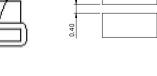
Applications

- Optical indicator
- Indoor display
- Backlighting in dashboard and switch
- Flat backlighting for LCD, symbol and display
- General use









Notes:

- 1. All dimension units are millimeters.
- 2. All dimension tolerance is ±0.2mm unless otherwise noted.

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1.10





Selection Guide

Part No.	Dice	Lens Type	Luminous Flux(Lm) 60mA			Viewing Angle
			Min	Тур	Max	201/2
CL-SFC506DWW-3K-01	Blue (InGaN)	Yellow Diffused	22	23	26	120

Note:

1.1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2.the above luminous intensity measurement allowance tolerance $\pm 10\%$

2.30LM above Products lumens allow differences:±1LM

Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Units	test conditions
Forward Voltage	VF	2.8		3.4	V	IF=60mA
Reverse Current	IR			10	uA	VR = 5V
Color Rndering Index	CRI	80			/	IF=60mA
Color Temperature	Тс	2800		3200	К	IF=60mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	200	mW
DC Forward Current	IF	60	mA
Peak Forward Current [1]	IFP	120	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+100	°C

Note:

1. 1/10 Dut cycle,0.1ms pulse width.

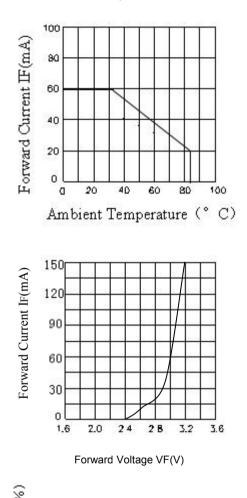
2. The above forward voltage measurement allowance tolerance $\pm 0.1 V$.

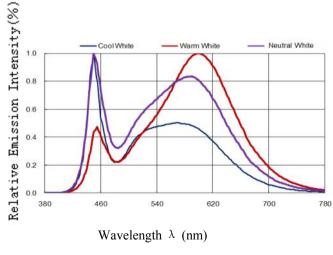


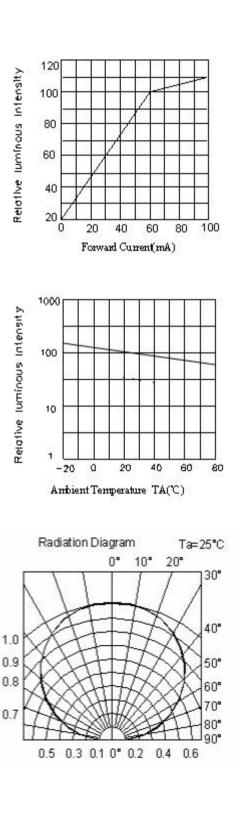


Typical optical characteristics curves

Ambient Temperature VS. Forward Current





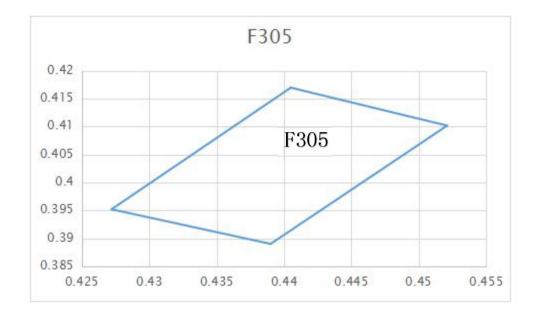


REV NO: A/1





Bin Color IF=60MA



BIN	x	У	
	0.4405	0.417	
	0.4521	0.4102	
F305 (2800-3200)	0.439	0.389	
	0.4272	0.3952	
	0.4405	0.417	





Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level :90%

LTPD :10%

Test Items	Test conditions	Quantity	Judging Criteria
Solderability	Solder Temperature: 240°C Solder Duration: (3.5±0.5) sec.	22	Solderable Area Over 95%
Thermal Shock Followed by High Temperature And High Humidity Cyclic	-40° → 10min 5 Cycles ↑ ↓ shift(2~3)min 100°C → 10 min. 6 25°C~55°C (90%~95%) RH 2 Cycles for 48 hrs., Recover for 2 hrs	22	C=0 & I**
Resistance For Soldering Heat	Reflow Soldering	22	C=0 & I**
DC Operating Life	1000 hrs. Forward Current: 60mA	22	C=0 & I**
High Temperature Storage	100°C4→ 1000 hrs	22	C=0 & I**
High Temperature And High Humidity Cyclic	25℃~55℃ (90%~95%)RH 6 Cycles for 144 hrs., Recover for 2 hrs.	22	C=0 & I**

The thchnical iformation shown in the data sheets are limited to the typical characteristics and circuit examples

of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.

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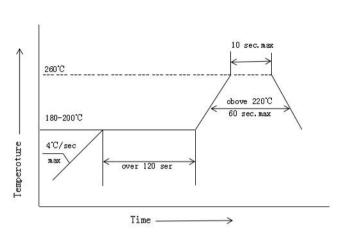




SMT Reflow Soldering Instructions

1.Reflow soldering should not exceed once.

2.In soldering process , do not stress on the LEDs during heating .

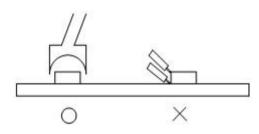


Soldering iron

1.When hand soldering, the temperature of the iron must lower than 300 $^\circ\!C$ for 3 seconds 2.The hand solder should be done only one time

Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of LEDs will or will not be damaged by repairing.



Storage

The package is sealed:

1.Recommended storage condition :At 5° C ~30 $^{\circ}$ C and relative humidity 90% RH max.

2.It is recommended that SMD out of their original packaging are used within one year.

The package is opened:

- 1.Completed within 24 hours.
- 2.Stored at5°C~30°C and 60% RH or less.
- 3.LEDs stored more than 24 hours should be baked at about $65\,{}^\circ\!\mathrm{C}\,{\pm}5\,{}^\circ\!\mathrm{C}$

for at least 24 hours before solder assembly.

Handling Precautions

1.Do not stack together assembled PCBs containing LEDs. Impact may scratch the silicone lens or damage.



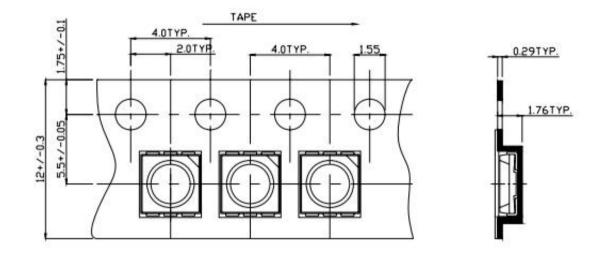
2.Not available in the situation of acidity for PH.







Carrier tape:Packgae: 1000pcs/reel



All dimensions in mm, tolerances unless mentioned is ± 0.1 mm. Moisture Resistant Packaging

