



Data Sheet

Customer:	
Part No:	CL-SF681UV-400-01
Sample No:	
Description:	3528 SMD 400nm UVA
Item No:	

Customer				
Check Inspection Approval Date				





Features:

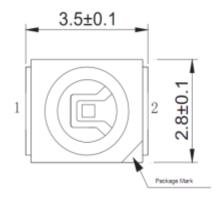
- . Reflow Solderable
- . High Luminous Intensity and Low Power Dissipation
- . Good Reliability and Long Life
- . Complied With RoHS Directive

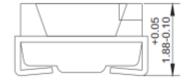
Technical Data Sheet

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

Applications

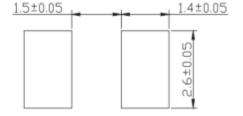
- Optical indicator
- Indoor display
- Backlighting in dashboard and switch
- Flat backlighting for LCD, symbol and display
- General use











Notes:

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

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Selection Guide

Part No.	Dice	Lens Type	Luminous intensity(mcd) @ 20mA			Viewing Angle
_ 00.000			Min	Тур	Max	201/2
CL-SF681UV-400-01	Purple (InGaN)	Water Clear	15		50	120

Note:

- $1.2\theta1/2$ is the angle from optical centerline where the luminous intensity is $.2\theta1/2$ the optical centerline value.
- 2. The above luminous intensity measurement allowance tolerance $\pm 10\%$

Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Units	test conditions
Forward Voltage	VF	2.8		3.6	V	IF=20mA
Reverse Current	IR			10	uA	VR = 5V
Peak Wavelength	λР	400		410	nm	IF=20mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	90	mW
DC Forward Current	IF	20	mA
Peak Forward Current [1]	IFP	40	mA
Reverse Voltage	VR	5	V
Electrostatic Discharge (HBM)	ESD	2000	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 $\pm 0.1 V$.
- 3. The tolerance of wave length:±1nm.

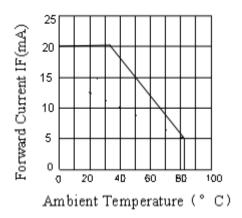
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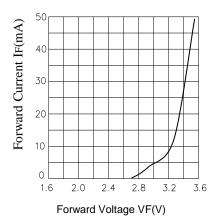


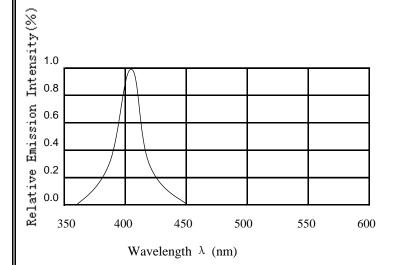


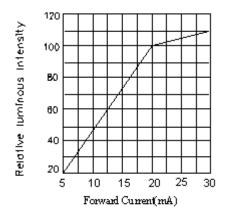
Typical optical characteristics curves

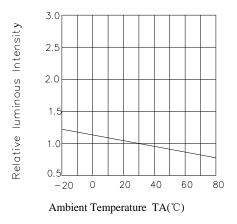
Ambient Temperature VS. Forward Current

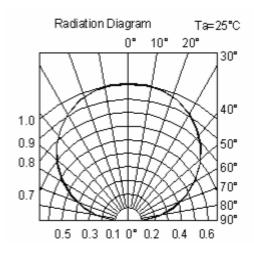












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BIN CODE	VF (V)	IV (mw)	WP (nm)
1	3. 0-3. 1	40-60	400-405
2	3. 1-3. 2	40-60	400-405
3	3. 2-3. 3	40-60	400-405
4	3. 3-3. 4	40-60	400-405
5	3. 4-3. 5	40-60	400-405
6	3. 5-3. 6	40-60	400-405
7	3. 0-3. 1	60-80	400-405
8	3. 1-3. 2	60-80	400-405
9	3. 2-3. 3	60-80	400-405
10	3. 3-3. 4	60-80	400-405
11	3. 4-3. 5	60-80	400-405
12	3. 5-3. 6	60-80	400-405

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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. 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: 20mA	22	C=0 & I**
High Temperature Storage			C=0 & I**
High Temperature And High Humidity Cyclic	25°C~55°C (90%~95%) RH 6 Cycles for 144 hrs., Recover for 2 hrs.	22	C=0 & I**

The technical information 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.

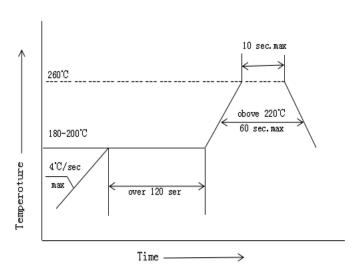
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SMT Reflow Soldering Instructions

- 1.Reflow soldering should not exceed once.
- 2.In soldering process, do not stress on the LEDs during heating.

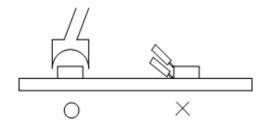


Soldering iron

- 1.When hand soldering, the temperature of the iron must lower than 300°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 °C and relative humidity 90% RH max.
- 2.It is recommended that SMD out of their original packaging are used within one year.

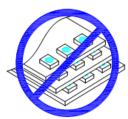
The package is opened:

- 1.Completed within 24 hours.
- 2.Stored at5 $^{\circ}$ $^{\circ}$ and 60% RH or less. 3.LEDs stored more than 24 nours should be baked at about 65 C±5 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.



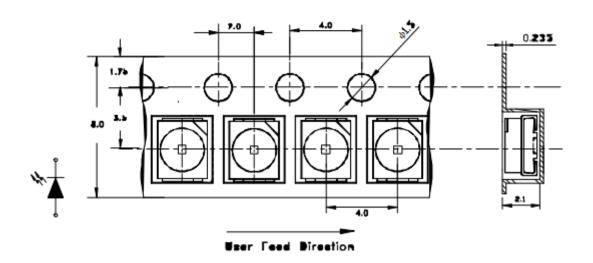
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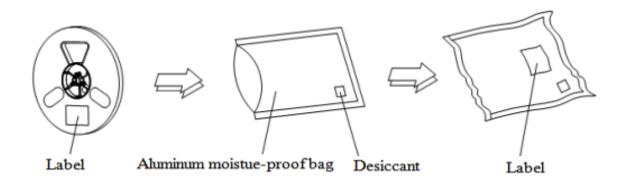
Packaging

Carrier tape (MPQ:2000PCS/reel)



Note: The tolerances unless mentioned is ±0.1mm, Unit:mm

Moisture Resistant Packaging



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