



	Data	Sheet	
Customer:			
Part No:	CL-SFD3	535DLG-B-01	
Sample No:			
Description:	35.	35 Green SMD	
Item No:			

Customer					
Check	Inspection	Approval	Date		





CL-SFD3535DLG-B-01

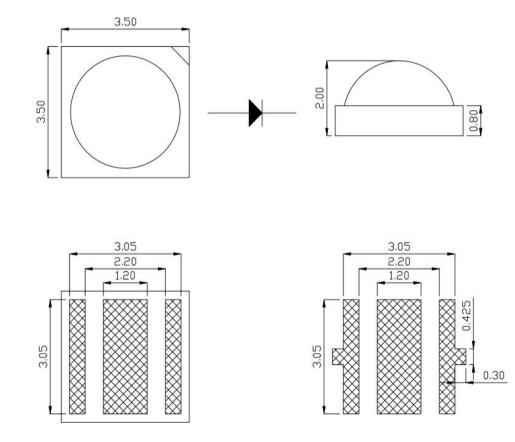
Features:

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

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.





Selection Guide

Part No.	Chip Materials	Lens Type	Luminous flux(LM) @ 350mA			Viewing Angle
			Min	Тур	Max	201/2
CL-SFD3535DLG-B-01	(Green) InGaN	Water Clear	90		100	120

Note:

 $1.2\theta 1/2$ is the angle from optical centerline where the luminous intensity is $2\theta 1/2$ 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		3.4	V	IF=350mA
Reverse Current	IR			10	uA	VR = 5V
Dominate Wavelength	λd	520		530	nm	IF=350mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	3000	mW
DC Forward Current	IF	700	mA
Peak Forward Current [1]	IFP	1000	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 $\pm 0.1 V$.

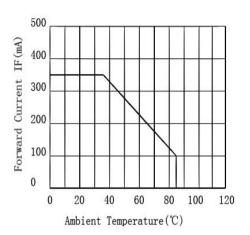


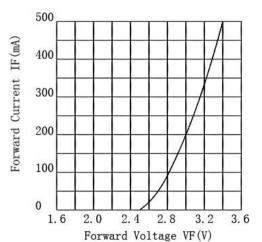


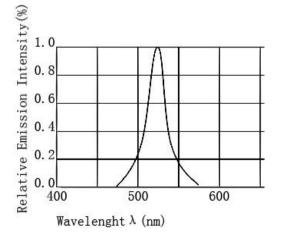
Typical optical characteristics curves

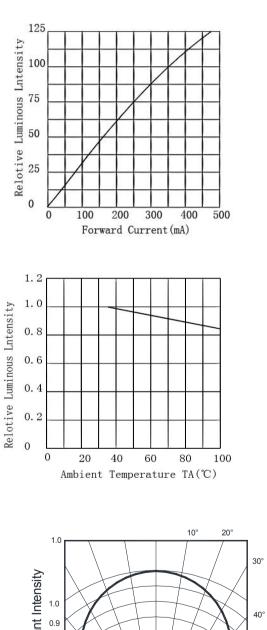
Ambient Temperature VS. Forward Current

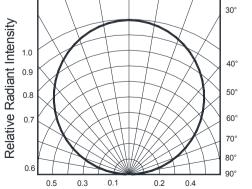
RoH















Reliability Test Items And Conditions

Test Items	Ref.Standard	Test conditions	Time	Quantity	Ac/Re
Reflow	JESD22-B106	Temp:260°C max T=10 sec	3 times.	22Pcs.	0/1
Temperature Cycle	JESD22-A104	100°C±5°C 30 min. ↑↓5 min -40°C±5°C 30 min.	100 Cycles	22Pcs.	0/1
High Temperature Storage	JESD22-A103	Temp:100°C±5°C	1000Hrs	22Pcs.	0/1
Low Temperature Storage	JESD22-A119	Temp:-40°C±5°C	1000Hrs	22Pcs.	0/1
Life Test	JESD22-A108	Ta=25°C±5°C IF=350mA	1000Hrs	22Pcs.	0/1
High Temperature High Humidity Life Test	JESD22-A101	85℃±5℃/85%RH IF=350mA	1000Hrs	22Pcs.	0/1

Criteria For Judging Damage

Test Items	Symbol	Test conditions	Criteria For Judgement	
			Min.	Max.
Forward Voltage	VF	IF=350mA		U.S.L*)x1.1
Reverse Current	IR	VR = 5V		U.S.L*)x2.0
Luminous intensity	IV	IF=350mA	L.S.L*)x0.7	

U.S.L: Upper standard level

L.S.L: Lower standard level

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.



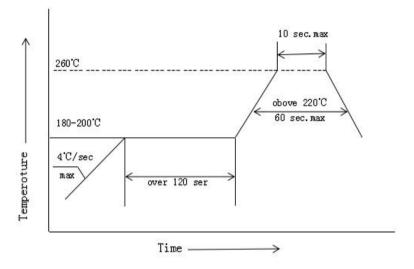


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SMT Reflow Soldering Instructions SMT

1. For secondary high temperature welding, please complete within 24 hours.

2. When soldering, do not put stress on the LEDs during heating.



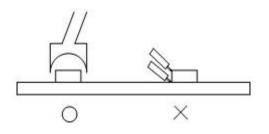
Soldering iron

1. When hand soldering, the temperature of the iron must less than 315° C for 3 seconds

2. The hand solder should be done only one times

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 in advance whether the characteristics of LEDs will or will not be damaged by repairing.







Storage

This product uses sealing anti-moisture antistatic packaging, and with desiccant, humidity card.

Before packaging is opened:

 1_{\circ} The storage environment is: the ambient temperature should be maintained between 5 °C and 30 °C, and the relative humidity should be maintained within 60 % RH. When the storage time of the product exceeds 2 months, the product must be rebaked for use.

 2_{s} Please check that the package is leaking before opening. If it has leaked, please re-bake and use it or return to the plant to dehumidify.

After opening the package:

1 After opening the package, check whether the humidity card has a discoloration phenomenon. For example, 20 % of the humidity card indicates discoloration. Please remove the material from the bag and use it after dehumidifying 24H at 65 °C. (To reduce the risk of use, it is recommended that this product be dehumidified at 65 °C / 24H before use)

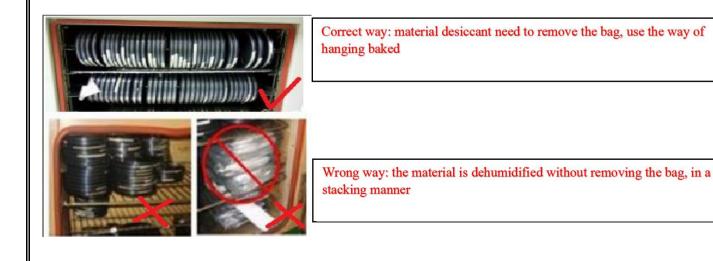
2. Environmental conditions: The ambient temperature should be kept between \leq 30 ° C and relative humidity

The lower 60 % RH should be maintained.

3、 if the material is not produced after exposure in the workshop for more than 24 hours, the product must be put back in the oven, dehumidified with 65 °C 24H, and then can be used again. If the material is not produced after 48 hours of exposure in the workshop, return the material to the SMD plant for high temperature dehumidification.

4. When the material is dehumidified, please do not open the oven in the middle, so that the oven temperature will not drop to the dehumidification effect.

Please refer to the following operating methods when the material needs to be dehumidified



REV NO: A/1





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ESD

Static Electrisity will damage the LED.

The following steps can reduce the likelihood of ESD causing product damage

1.All productive machinery and test instruments must be electrically grounded.

2.Use a condustive wrist band or anti-electostatic glove when handling these LEDs.

3. Manintain a humidity level of 50% RHor higher in production areas.

4.Use anti-static packaging for transport and storage.

Handling Precautions

1.Do not stack the assembled PCB together. This may scratch the surface of the product or damage the circuit.



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



3.Electrostatic sensitive device







Carrier tape(MPQ:1000PCS/reel)

