





Absolute Maximum Ratings at Ta=25

Parameter	MAX	Unit	
Power Dissipation	72		
Peak Forward Current*3	60	mA	
Continuous Forward Current	30	mA	
Reverse Voltage	5	V	
Electrostatic Discharge(HBM)*5	2000	V	
Moisture Sensitivity Level*1	3		
Operating Temperature Range	-40°C to + 85°C		
Storage Temperature Range	-40°C to + 85°C		
Junction Temperature	95		
IR Reflow Temperature*4	260 for 10 Seconds MAX.		

1. Storage:

- (1). Storage requirements before vacuum bag opened: Temperature<30 , Humidity<65%RH;
- (2). Check air leakage and vacuum bag damage before opened. If there is any issue found, check the humidity indicator card immediately after bag opened:
 - a. If color changes on "10% circle" of the humidity indicator card only and not the circles of 20% and above, components can be used without additional handling;
 - b. If color changes on both 10% and 20% circles but not the circles of 30% and above, components must be dehumidified according to the conditions of bullet (5);
 - c. If color changes on 10%, 20%, and 30% circle or above, the product should be returned to the supplier for high temperature dehumidification;
- (3). After bag opened, manual soldering or reflow process must follow the following requirements:
 - a. Complete soldering / reflow within 168 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a or (3)b requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60 ± 5 24 hours;
- (6). Shelf life: 1 year. If it's over 1 year from the production date on the package label, the components must be dehumidified according to the condition of bullet (5). If customer is unable to dehumidify, return components to LIGHT for dehumidification.

2. Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary.

3. Peak Forward Current:

Condition for is IFP pulse Pulse Width 0.1ms and duty 1/10.

4. IR Reflow Temperature:

It is the Plate Temperature.

5. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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Electrical Optical Characteristics at Ta=25

Parameter	Symbol		Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	1FM	4		6	mcd		
		1FN	6		8			
		A00	8		12		I _F =5mA (Note 1)	
		B00	12		18			
		C00	18		28			
Viewing Angle	2	1/2		140		Deg.	(Note 2)	
Peak Emission Wavelength		p	-	575		nm	I _F =5mA	
Dominant Wavelength	d	B10	565		567.5	nm	I _F =5mA (Note 3)	
		B20	567.5		570			
		C10	570		572.5			
		C20	572.5		575			
Spectral Line Half-Width			1	15		nm	I _F =5mA	
Forward Voltage	V_{F}	B1	1.8		1.9	V		
		B2	1.9		2.0			
		C1	2.0		2.1		T 5 A	
		C2	2.1		2.2		I _F =5mA	
		D1	2.2		2.3			
		D2	2.3		2.4			
Reverse Current	I	R			10	μΑ	V _R =5V	

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of Luminous Intensity: $\pm 15\%$.
- 2. _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device. Tolerance of Dominant Wavelength: ± 1.0 nm.
- 4. Tolerance of Forward Voltage: ±0.1V.

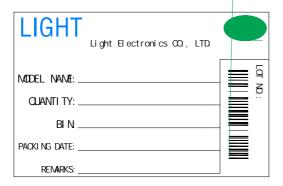
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Label Explanation



MODEL NAME/	QUANTITY/
BIN./	PACKING DATE/
CUSTOMER P/N/	LOT NO./
REMARKS/	/

Reel Dimensions

Note: Tolerance unless mentioned is ± 0.2 mm; Unit = mm

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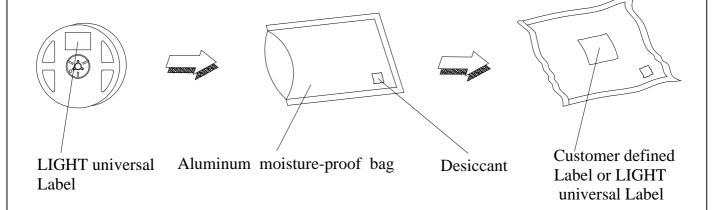




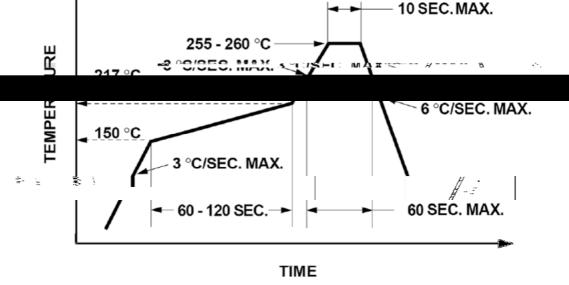
Carrier Tape Specifications(Loaded Quantity: 4000pcs/reel)



Moisture Resistant Packaging



Suggest IR Reflow Condition For Lead Free



- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

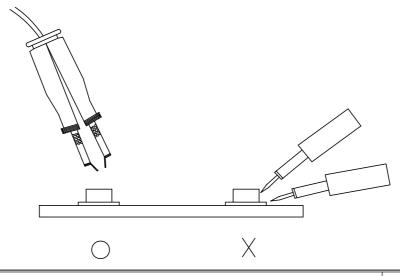
Soldering iron

- 1. When hand soldering, the temperature of the iron must less than 300°C for 3 seconds.
- 2. The hand solder should be done only once.

Repairing

Renair should not be done after the LEDs have been soldered. When repairing is unavoidable a double-nead soldering from should be used (as below figure). It should be contifmed beforehand

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



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