



SL-T2835UVAC120-L70 DATA SHEET

 SPEC. NO.
 :
 SZ19112002

 DATE
 :
 2019/11/20

 REV.
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Approved By:

Checked By:

Prepared By:

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			I.C. OR R000.01

LIGHT ELECTRONICS CO., LTD.

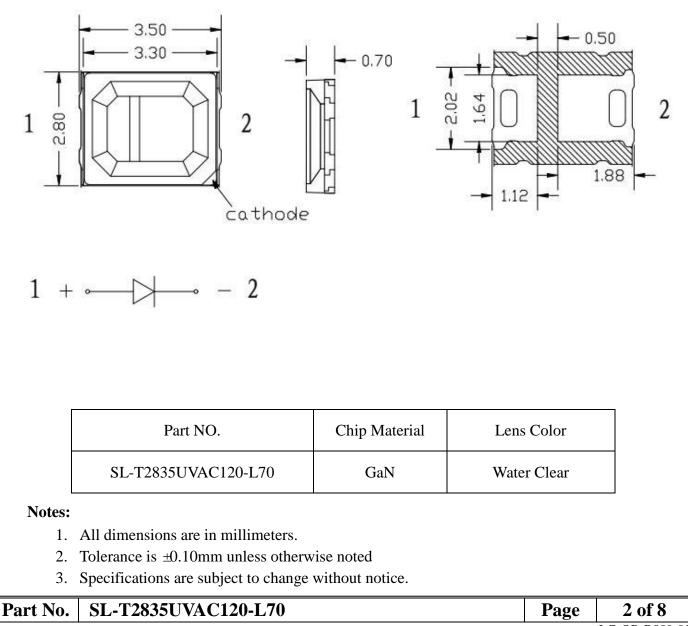
LIGHT

RoHS

Features

- Pb free product—RoHS compliant
- Low power consumption, High efficiency
- Reliable and rugged
- Long life solid state reliability
- ♦ Radiant angle: 120 °
- Peak Wavelength: 395nm

Package Dimension





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Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit	
Power Dissipation	480	mW	
Continuous Forward Current	120	mA	
Peak Forward Current ^{*2}	150	mA	
Reverse Voltage	5	V	
Electrostatic Discharge (HBM) ^{*3}	2000	V	
Moisture Sensitivity Level ^{*1}	5a		
Operating Temperature	-40°C to $+85^{\circ}\text{C}$		
Storage Temperature	-40°C to + 100°C		
IR Reflow Temperature	260°C for 10 Seconds MAX.		

1. Storage:

- (1). Storage requirements before vacuum bag opened: Temperature<30°C, 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 24 hours;
 - b. Requirements of working environment: Temperature<30°C, 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°C, at least 24 hours;
- (6). Shelf life: 30 days. If it's over 30 days 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. Peak Forward Current:

Condition for is IFP pulse: Pulse Width $\leq 100 \mu s$ and duty $\leq 10\%$.

3. 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°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Radiant Flux	Фе		230		mW	I _F =120mA (Note 1,3)
Viewing Angle(X)	20		120		Dag	(Note 2)
Viewing Angle(Y)	$2\theta_{1/2}$		120		Deg.	(Note 2)
Peak Wavelength	λp		395		nm	I _F =120mA
Forward Voltage	$V_{\rm F}$	2.8		4.0	V	I _F =120mA
Reverse Current	I _R			10	μΑ	V _R =5V

Note:

- 1. Point sources of the amount of radiation per unit time in a given direction within the unit solid Angle radiated energy.
- 2. $\theta_{1/2}$ is the off-axis angle at which the Radiant Intensity is half the axial Radiant Intensity.
- 3. The Φe guarantee should be added $\pm 15\%$ tolerance.

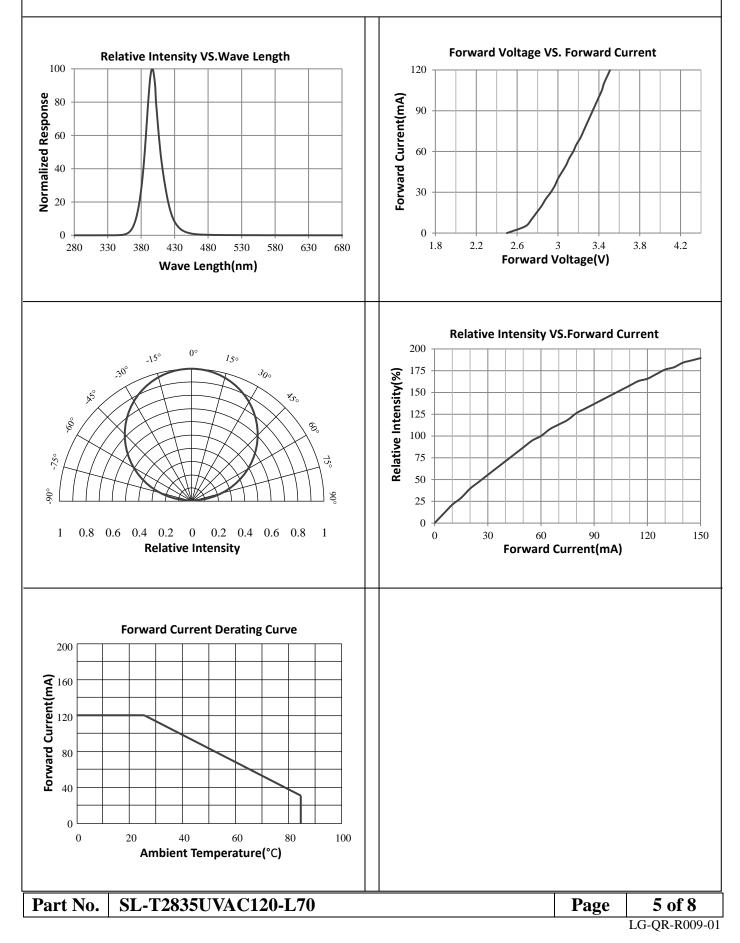
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LIGHT



Typical Electrical / Optical Characteristics Curves

(25 °C Ambient Temperature Unless Otherwise Noted)





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Label Explanation

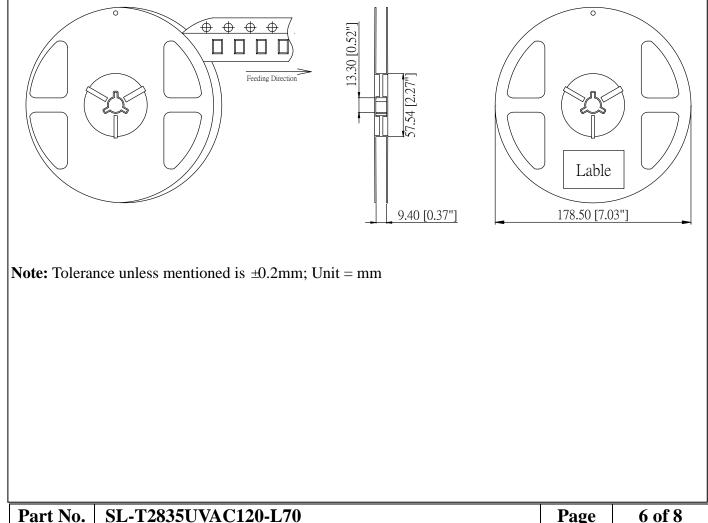
LIGHT Universal Label



Customer Defined Label

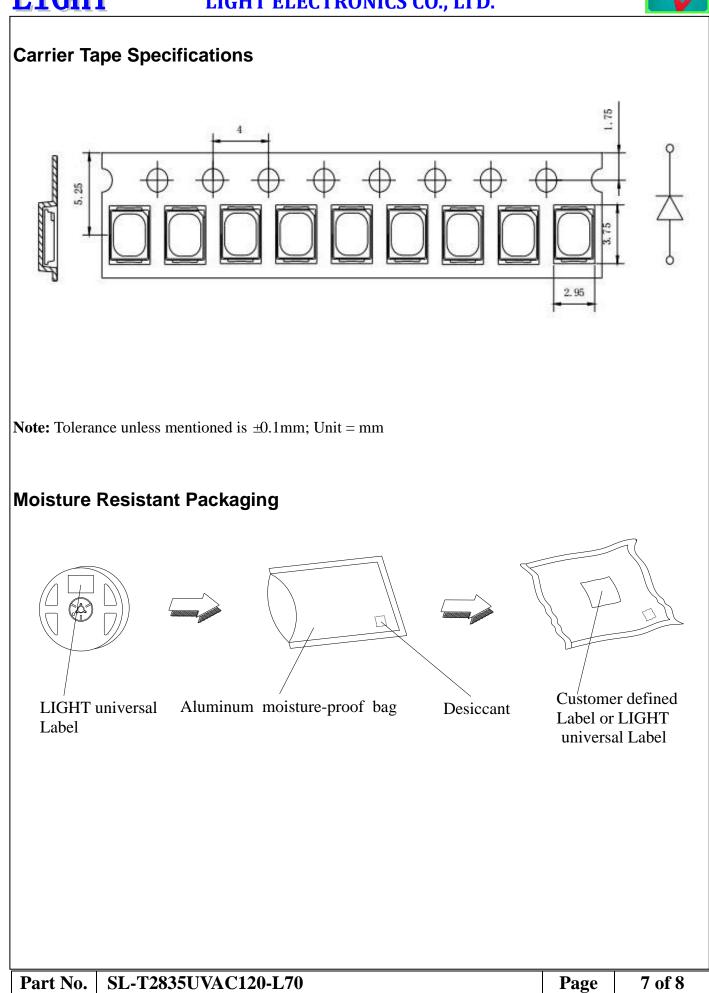
LIGHT	深圳莱特光电股份有限公司 Light Electronics CO., LTD.	RoHS	
产品型号 MODEL NAME:- 数量 QUANTITY:- 等级 BIN:- 包装日期 PACKING DATE:- 客户料号 CUSTOMER P/N:-			LOT NO. :

Reel Dimensions





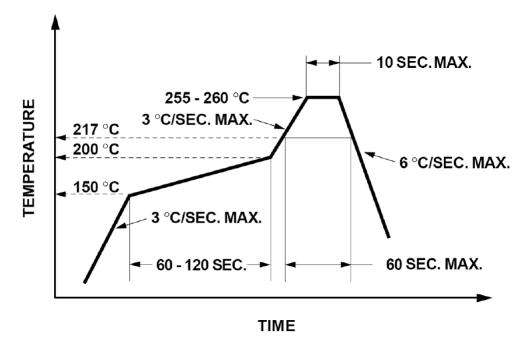








Suggest IR Reflow Condition For Lead Free



- 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

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.

