

DATA SHEET

SPEC. NO. : SZ16032901
DATE : 2016/03/29
REV. : A/0

Approved By:

Checked By:

Prepared By:

Parameter	Red	Green	Unit
Power Dissipation	72	102	mW
Peak Forward Current ^{*2}	100	100	mA
Continuous Forward Current	30	30	mA
Reverse Voltage	5	5	V
Electrostatic Discharge (HBM) ^{*3}	4000	4000	V
Moisture Sensitivity Level ^{*1}	5a		
Operating Temperature Range	-40 to + 85		
Storage Temperature Range	-40 to + 100		
Reflow Temperature	260 Max. for 10 Seconds Max.		

- (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 24 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60±5 , 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.

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

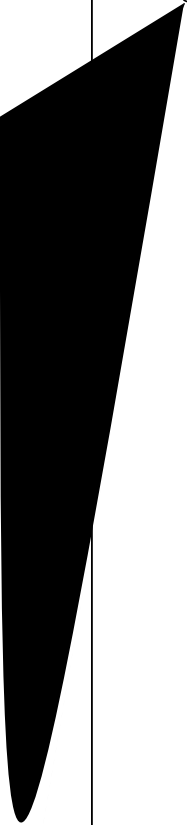
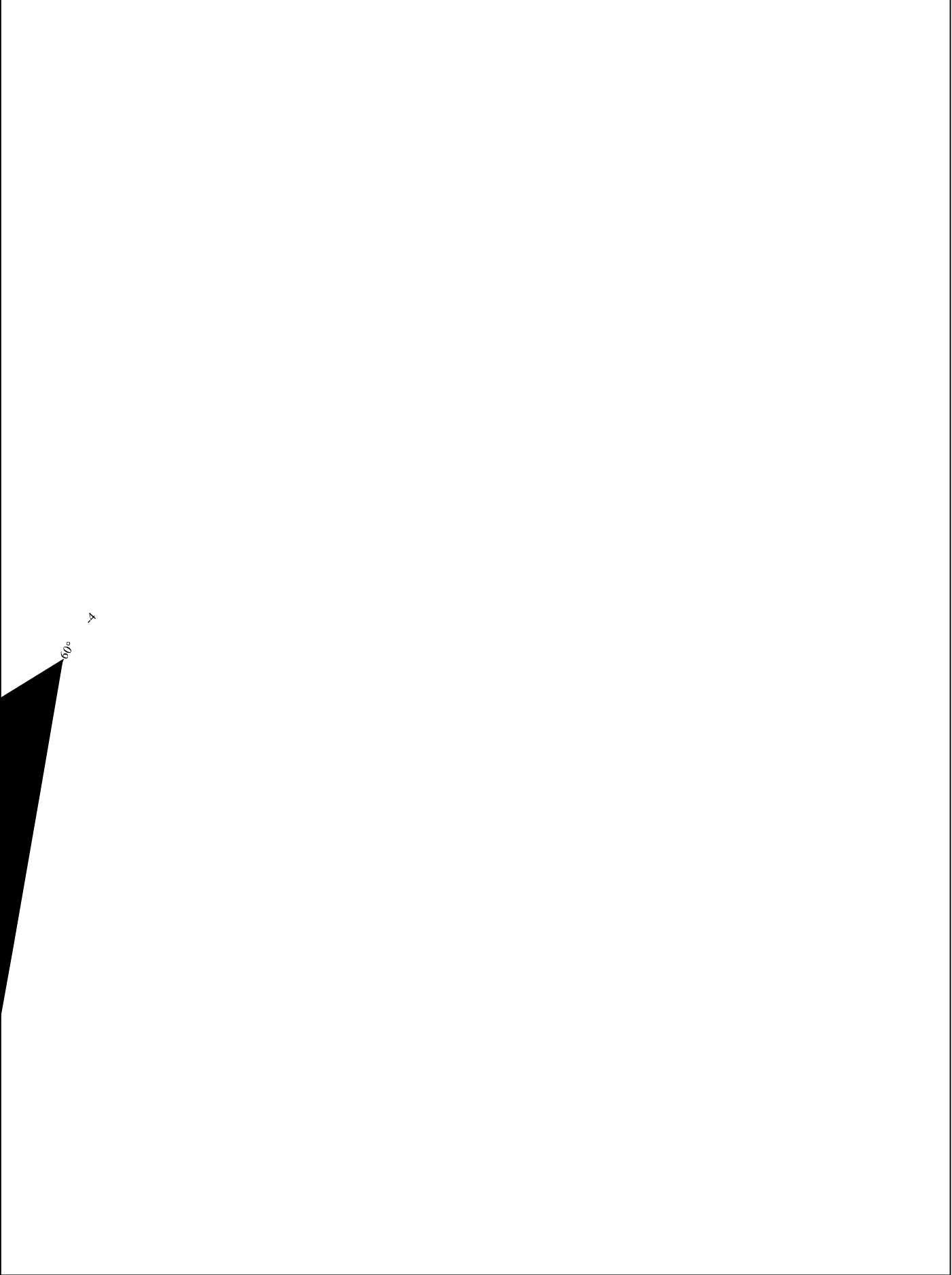
Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Luminous Intensity	I_v	Red	546	715	922	mcd	$I_F=20\text{mA}$
		Green	1300	1700	2200	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	---	---	120	---	Deg.	(Note 2)
Peak Emission Wavelength	λ_p	Red	---	635	---	nm	$I_F=20\text{mA}$
		Green	---	515	---	nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	Red	619	---	629	nm	$I_F=20\text{mA}$
		Green	515	---	530	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	λ	Red	---	15	---	nm	$I_F=20\text{mA}$
		Green	---	30	---	nm	$I_F=20\text{mA}$
Forward Voltage	V_F	Red	1.8	---	2.4	V	$I_F=20\text{mA}$
		Green	2.6	---	3.4	V	$I_F=20\text{mA}$
Reverse Current	I_R	---	---	---	10	μA	$V_R=5\text{V}$

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. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device. Tolerance of Dominant Wavelength: $\pm 1.0\text{nm}$.
4. Tolerance of Forward Voltage: $\pm 0.1\text{V}$.



D.

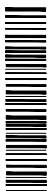


60°

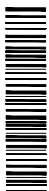
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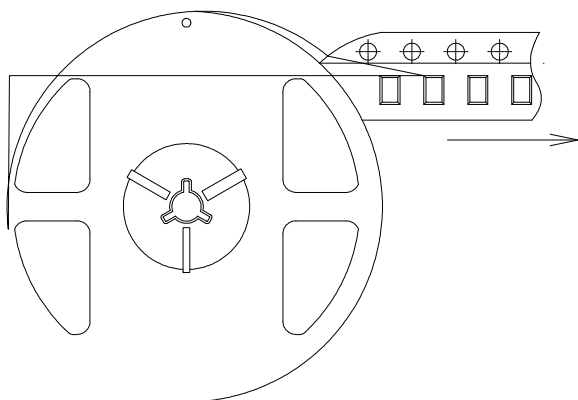
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LIGHT Universal Label

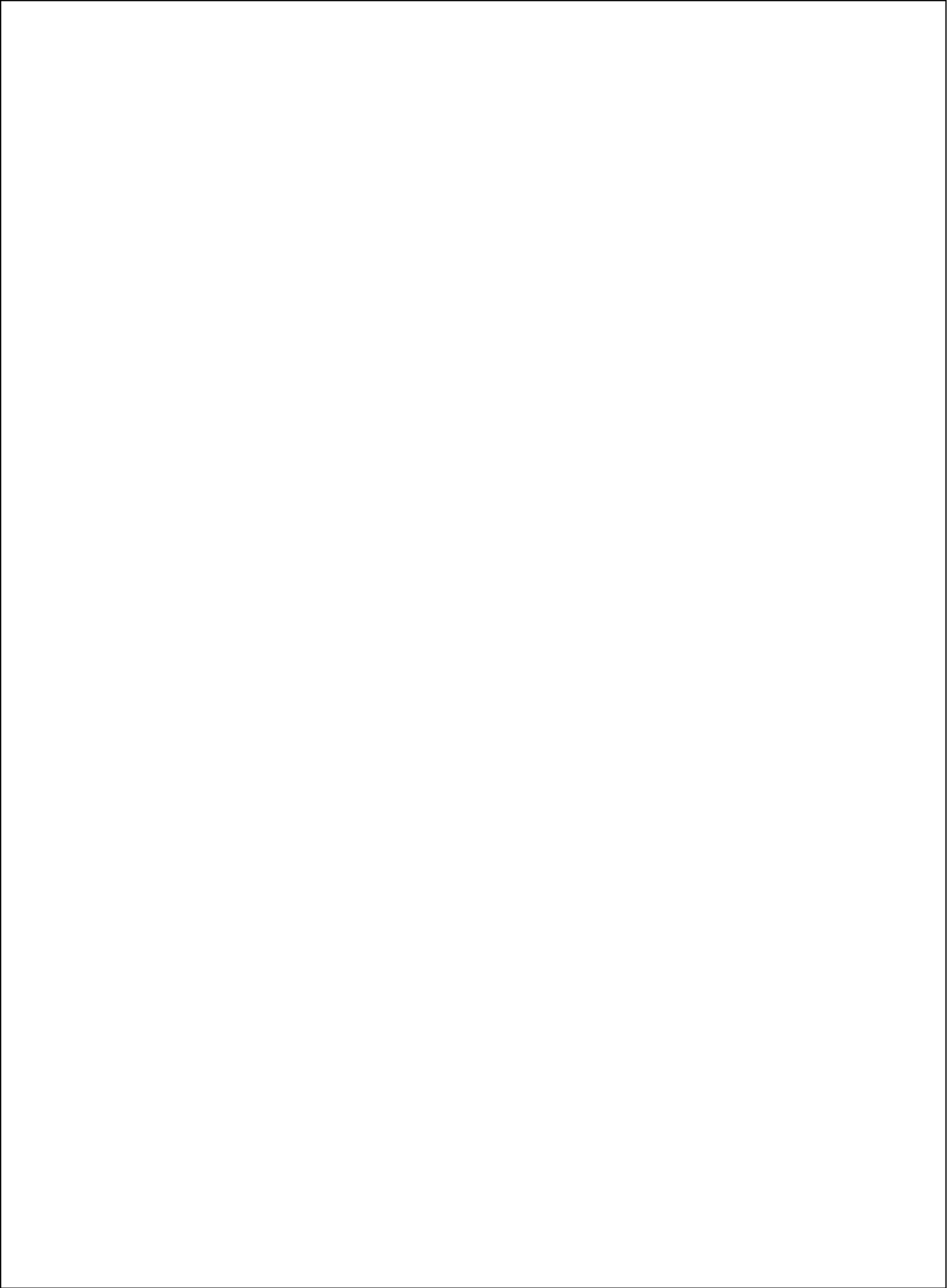
LIGHT		
Light Electronics CO., LTD.		
MODEL NAME: _____	 LOT NO.: _____	
QUANTITY: _____		
BIN: _____		
PACKING DATE: _____		
REMARKS: _____		

Customer Defined Label

LIGHT		
Light Electronics CO., LTD.		
MODEL NAME: _____	 LOT NO.: _____	
QUANTITY: _____		
BIN: _____		
PACKING DATE: _____		
CUSTOMER P/N: _____		



Tolerance unless mentioned is $\pm 0.2\text{mm}$; Unit = mm



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