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Http://www.ledtech.com.tw

SPECIFICATION

PART NO.: LT65W3-2B-UEE3-S27

4.8mm ROUND LED LAMP



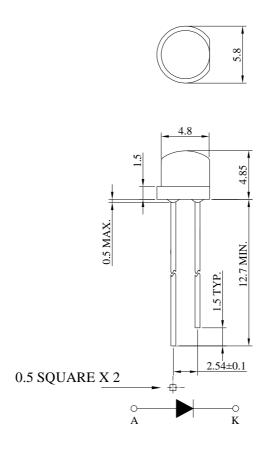


Approved by	Checked by	Prepared by
Kj	Lian	Haibo



Description

This white lamp is made with InGaN/Sapphire chip and water clear epoxy resin.



Notes:

- 1. All dimensions are in mm.
- 2. Tolerance is \pm 0.25mm unless otherwise noted.

Description

	LED Chip			
Part No.	Material	Emitting Color	Lens Color	
LT65W3-2B-UEE3-S27	InGaN/Sapphire	White	Water clear	

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LT65W3-2B-UEE3-S27

4.8mm ROUND LED LAMP

Absolute Maximum Ratings at Ta=25°℃

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	102	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	If	30	mA
Reverse (Leakage) Current	Ir	10	μ A
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	$^{\circ}\! \mathbb{C}$
Storage Temperature Range	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature(1.6mm from body)	Tsol	Dip Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.	
Electrostatic discharge	ESD	6000	V

Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Flux	Фи	IF=20mA	5	6	7	lm
Forward Voltage	Vf	If=20mA		3.2	3.4	V
Correlated Colour Temperature	ССТ	If=20mA	10000	12000	14000	K
Reverse (Leakage) Current	Ir	Vr=5V			10	μΑ
Viewing Angle	2 \theta 1/2	If=20mA		120		deg

Notes: 1. Tolerance of Luminous Intensity is $\pm 15\%$.

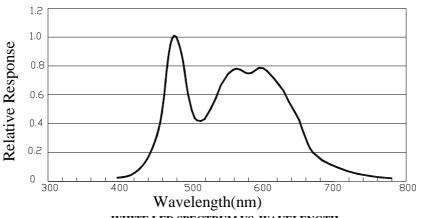
2. Tolerance of Forward Voltage is ± 0.1 V.

3. Tolerance of Correlated Colour Temperature is $\pm 10\%$.

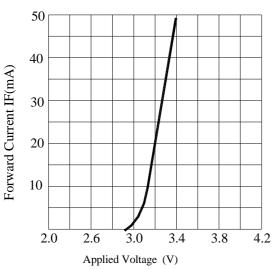
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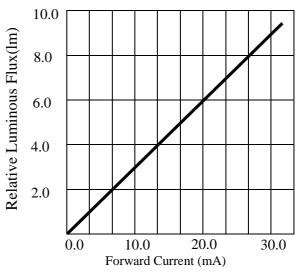
Typical Electrical / Optical Characteristics Curves:



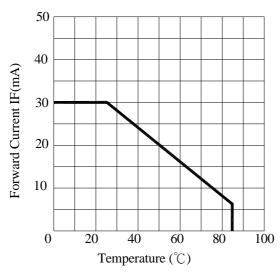
WHITE LED SPECTRUM VS. WAVELENGTH



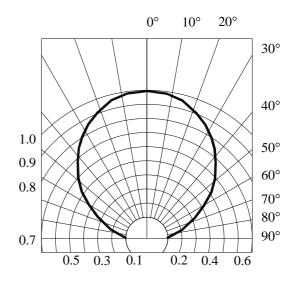
FORWARD CURRENT VS.APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS FLUX



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM

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LT65W3-2B-UEE3-S27

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Precautions:

TAKE NOTE OF THE FOLLOWING IN USE OF LED

1. Temperature in use

Since the light generated inside the LED needs to be emitted to outside efficiently, a resin with high light transparency is used; therefore, additives to improve the heat resistance or moisture resistance (silica gel, etc) which are used for semiconductor products such as transistors cannot be added to the resin. Consequently, the heat resistant ability of the resin used for LED is usually low; therefore, please be careful on the following during use. Avoid applying external force, stress, and excessive vibration to the resins and terminals at high temperature. The glass transition temperature of epoxy resin used for the LED is approximately 120-130°C. At a temperature exceeding this limit, the coefficient of liner expansion of the resin doubles or more compared to that at normal temperature and the resin is softened. If external force or stress is applied at that time, it may cause a wire rupture.

2. Soldering

Please be careful on the following at soldering.

After soldering, avoided applying external force, stress, and excessive vibration until the products go to cooling process (normal temperature), <Same for products with terminal leads>

(1) Soldering measurements:

Distance between melted solder side to bottom of resin shall be 1.6mm or longer.

(2) Dip soldering:

Pre-heat: 90°C max. (Backside of PCB), Within 60 seconds.

Solder bath: $260\pm5^{\circ}$ C (Solder temperature), Within 5 seconds.

(3) Hand soldering: $350\,^\circ\text{C}$ max. (Temperature of soldering iron tip), Within 3 seconds.

3. Insertion

Pitch of the LED leads and pitch of mounting holes need to be same.

4. Others

Since the heat resistant ability of the LED resin is low, SMD components are used on the same PCB, please mount the LED after adhesive baking process for SMD components. In case adhesive baking is done after LED lamp insertion due to a production process reason, make sure not to apply external force, stress, and excessive vibration to the LED and follow the conditions below. Baking temperature: 120°C max. Baking time: Within 60 seconds. If soldering is done sequentially after the adhesive baking, please perform the soldering after cooling down the LED to normal temperature.

5. This LED is designed to be wave solder and dip soldered on to a PCB. If reflow soldered, Ledtech cannot guarantee its reliability.

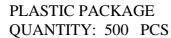
Disclaimer

- 1. Our department reserves the right(s) on the adjustment of product material mix for the specification.
- 2. The product meets our department published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Our department assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 5. These specification sheets include materials protected under copyright of our department. Reproduction in any form is prohibited without obtaining our department's prior consent.

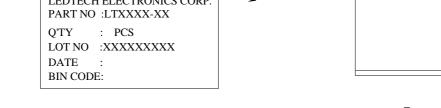
This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or life saving applications or any other application which can result in human injury or death. Please contact authorized our department sales agent for special application request.

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ENCASED TYPE



LEDTECH ELECTRONICS CORP.

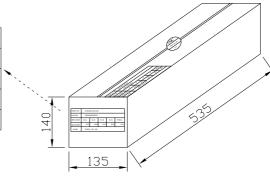


INNER BOX

QUANTITY: 15 PACKETS

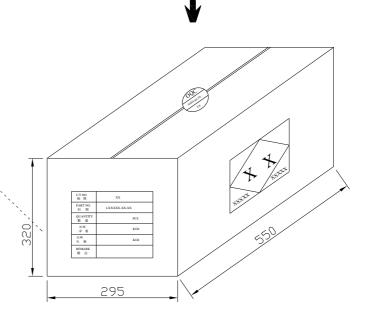
TOTAL: 7,500 PCS

PART NO.	LXXXXX-XX-XX				
LOT NO.	xxxxxxxxx				
BIN CODE	Xx X	Xx X	Xx X	Xx X	TOTAL
QUANTITY	PCS	PCS	PCS	PCS	PCS
DATE	XXXX, XX, XX				



OUTER CARTON QUANTITY: 4 BOX TOTAL: 30,000 PCS

C/T NO. 箱 號	XX
PART NO. 料 號	LXXXXX-XX-XX
QUANTITY 數量	PCS
N.W. 净 重	KGS
G.W. 毛 重	KGS
REMARK 備 註	



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