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Http://www.ledtech.com.tw

SPECIFICATION

PART NO.: LT2462-34-D51

5.0mm ROUND BI-COLOR LAMP(3 LEADS)

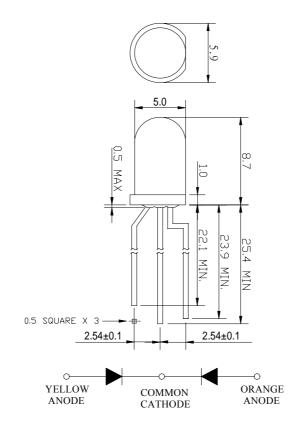


Approved by	Checked by	Prepared by		
Sam	Yang	Min Bao		



Description

This yellow and orange lamp is made with GaAsP/GaP yellow chip, GaAsP/GaP orange chip and white diffused epoxy resin.



Notes:

- 1. ALL DIMENSIONS ARE IN mm.
- 2. TOLERANCE IS ± 0.25 mm UNLESS OTHERWISE NOTED.

Description

	LED Cl		
Part No.	Material	Emitting Color	Lens Color
LT2462-34-D51	GaAsP/GaP	Yellow	White diffused
L12402-34-D31	GaAsP/GaP	Orange	winte diffused

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Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	78	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	If	30	mA
Reverse (Leakage) Current	Ir	100	μA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	100	mA
Operating Temperature Range	Topr.	-25 to +85	
Storage Temperature Range	Tstg.	-40 to +100	
Lead Soldering Temp.(1.6mm from body) for 5 seconds	260		

Electrical and Optical Characteristics:

Yellow

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	9.0	18.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	λΡ	If=20mA		585		nm
Dominant Wavelength	λD	If=20mA		590		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	μΑ
Viewing Angle	2 1/2	If=20mA		70		deg
Spectrum Line Halfwidth	Δλ	If=20mA		35		nm

NOTE: THE DATAS TESTED BY IS TESTER

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Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	78	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	If	30	mA
Reverse (Leakage) Current	Ir	10	μΑ
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	100	mA
Operating Temperature Range	Topr.	-25 to +85	
Storage Temperature Range	Tstg.	-40 to +100	
Lead Soldering Temp.(1.6mm from body) for 5 seconds	260		

Electrical and Optical Characteristics:

Orange

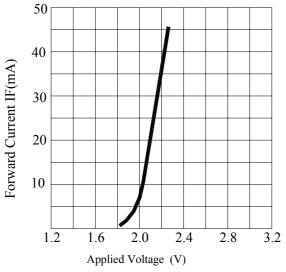
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=20mA	9.09	20.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	λΡ	If=20mA		635		nm
Dominant Wavelength	λD	If=20mA		626		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	μΑ
Viewing Angle	2 1/2	If=20mA		70		deg
Spectrum Line Halfwidth	Δλ	If=20mA		35		nm

NOTE: THE DATAS TESTED BY IS TESTER

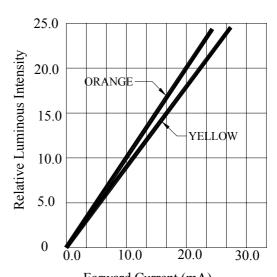
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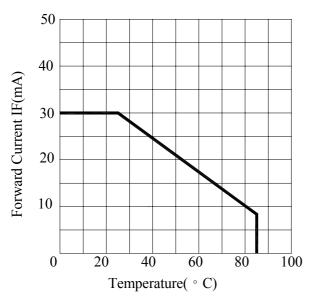
Typical Electrical / Optical Characteristics Curves:



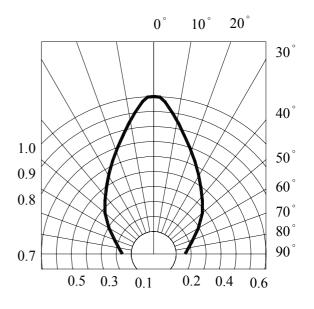
FORWARD CURRENT VS.APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM

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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 .

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) Solder dip: Preheat: 90 max. (Backside of PCB), Within 120 seconds Solder bath: 250 max. (Solder temperature), Within 5 seconds
- (3) Soldering iron: 250 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 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.

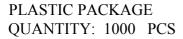
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LT2462-34-D51

5.0mm ROUND BI-COLOR LAMP(3 LEADS)

ENCASED TYPE



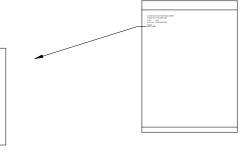
LEDTECH ELECTRONICS CORP.

PART NO:LTXXXX-XX

Q'TY : PCS

LOT NO :XXXXXXXXX

DATE : BIN CODE:



INNER BOX

QUANTITY: 10 PACKETS

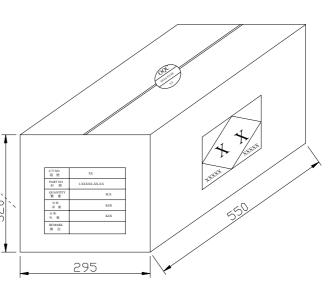
TOTAL: 10,000 PCS

						_
PART NO.	LXXX	XX-XX-X	ΚX			
LOT NO.	XXXX	XXXXXX	X			
BIN CODE	Xx X	Xx X	Xx X	Xx X	TOTAL	
QUANTITY	PCS	PCS	PCS	PCS	PCS	
DATE	XXXX	, XX , X	X			
						135

OUTER CARTON QUANTITY: 4 BOX

TOTAL: 40,000 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		
		320



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