



LEDTECH ELECTRONICS CORP.

· NANYA ROAD,MUGANG ZHAOQING  
· CITY GUANGDONG CHINA.

· TEL:86-758-2875541,2870651,2877464,2876185,2877017

· FAX:86-758-2878014

· *Http://www.ledtech.com.tw*

# SPECIFICATION

*PART NO. : LT2462-FE-D51*

*5.0MM ROUND BI-COLOR LAMP(3 LEADS)*

Approved by	Checked by	Prepared by
<i>Jack</i>	<i>Jang</i>	<i>Bao Min</i>



# 5.0MM ROUND BI-COLOR LAMP(3 LEADS)

PART NO. : LT2462-FE-D51

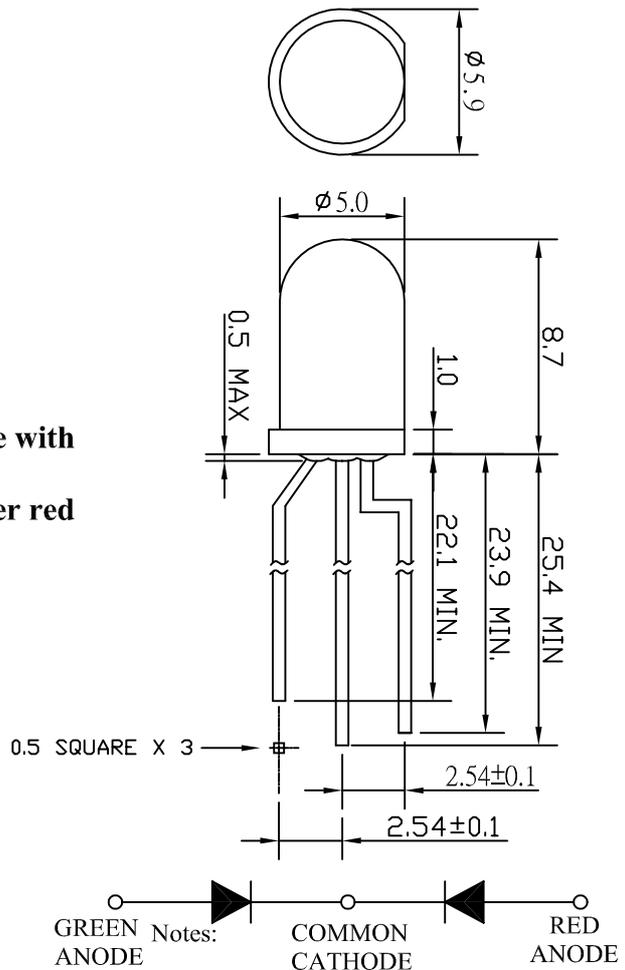
## Features

- \* High intensity
- \* Reliable and rugged
- \* Low current requirement
- \* IC compatible

## Description

The Green and Super red lamps are made with GaP/GaP Green chip, AlGaAs/GaAs Super red chip and white diffused epoxy resin.

## Package Dimensions



Notes:

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

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT2462-FE-D51	GaP/GaP	Green	White diffused
	AlGaAs/GaAs	Super red	



## 5.0MM ROUND BI-COLOR LAMP(3 LEADS)

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### Absolute Maximum Ratings at Ta=25°C :

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	72	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	If	30	mA
Peak Current (1/10 Duty Cycle , 0.1 ms Pulse Width)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	°C
Storage Temperature Range	Tstg	-40 to +100	°C
Lead Soldering Temp.(1.6mm from body) for 5 seconds		260	°C

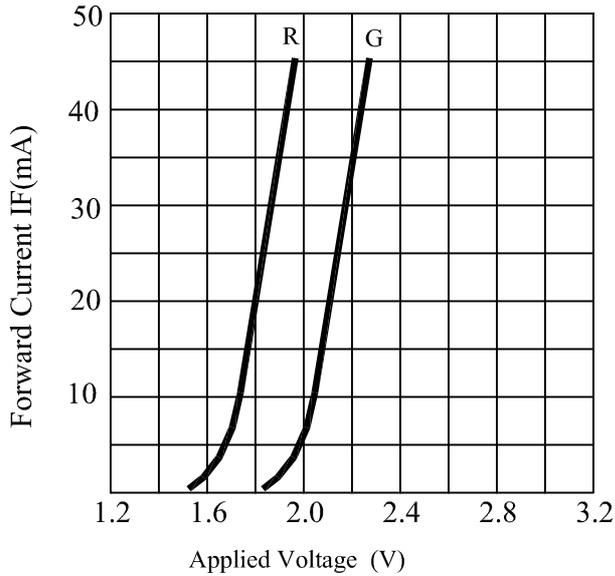
### Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	G	If=20mA	55.0	90.0		mcd
	R		36.0	60.0		
Forward Voltage	G	If=20mA		2.1	2.6	V
	R			1.8	2.2	
Peak Wavelength	G	If=20mA		567		nm
	R			660		
Dominant Wavelength	G	If=20mA		572		nm
	R			643		
Reverse Current	Ir	Vr=5V			100	μ A
Viewing Angle	2θ 1/2	If=20mA		70		deg
Spectrum Line Halfwidth	G	If=20mA		30		nm
	R			20		

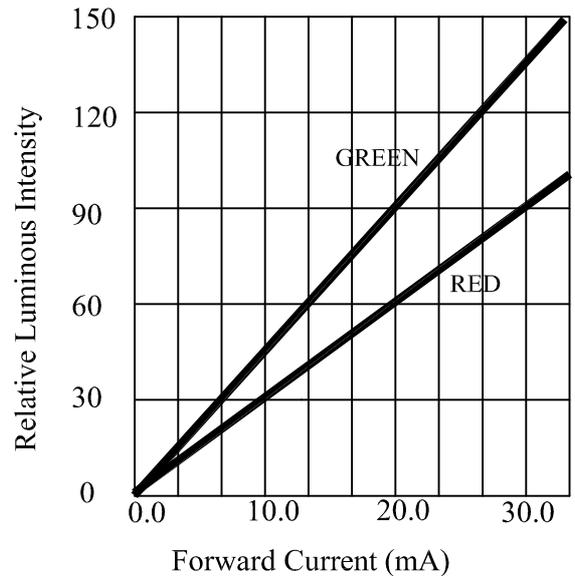


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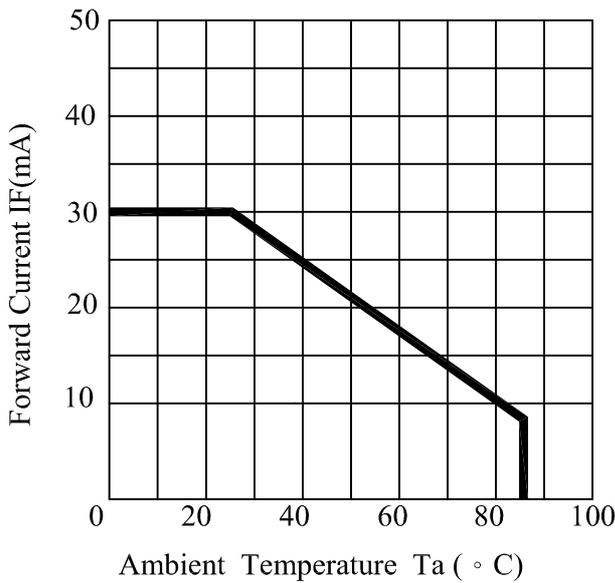
**Typical Electrical / Optical Characteristics Curves :**



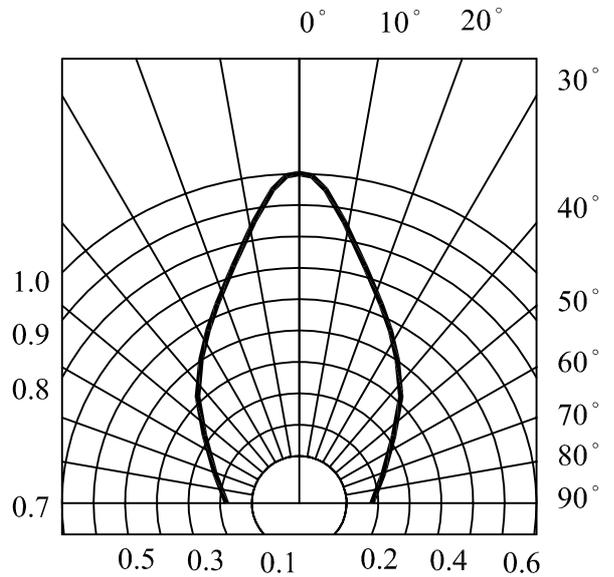
**FORWARD CURRENT VS.APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



**AMBIENT TEMPERATURE VS. FORWARD CURRENT**



**RADIATION DIAGRAM**



## 5.0MM ROUND BI-COLOR LAMP(3 LEADS)

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### Reliability Test Method :

Test Item	Test Condition	Duration Time
Operation Life	If=20mA / Ta=25°C	168hrs
Storage at High Temperature	Ta=100°C	168hrs
Storage at Low Temperature	Ta=-40°C	168hrs
Storage at High Temperature/High Humidity	Ta=85°C /RH=85%	168hrs
Operating at High Temperature	Ta=85°C / If=20mA	168hrs
Operating at Low Temperature	Ta=25°C / If=20mA	168hrs
Thermal Shock	Ta/T=100°C/30min~ -40°C/30min	10 cycles
Solderability	Tsol=230°C	5 sec

### Criteria for Judging The Damage:

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	-----	Initial Data x1.1
Reverse Current	Ir	Vr=5V	-----	100 $\mu$ A
Luminous Intensity	Iv	If=20mA	Initial Data x0.8	-----



**5.0MM ROUND BI-COLOR LAMP(3 LEADS)  
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**ENCASED TYPE**

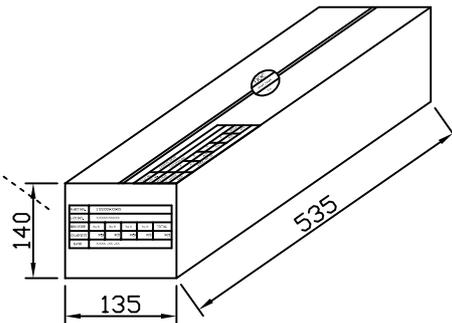
PLASTIC PACKAGE  
QUANTITY: 500 PCS

LEDTECH ELECTRONICS CORP.					
PART NO :LTXXXX-XX					
Q'TY	:	PCS			
LOT NO	:	XXXXXXXXXX			
DATE	:				
BIN CODE:					



INNER BOX  
QUANTITY: 16 PACKETS  
TOTAL: 8,000 PCS

PART NO.	LXXXXX-XX-XX				
LOT NO.	XXXXXXXXXX				
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: 32,000 PCS

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

