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SPECIFICATION

PART NO. : LT0362-24-D62

3.0MM ROUND BI-COLOR LAMP (3 LEADS)

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



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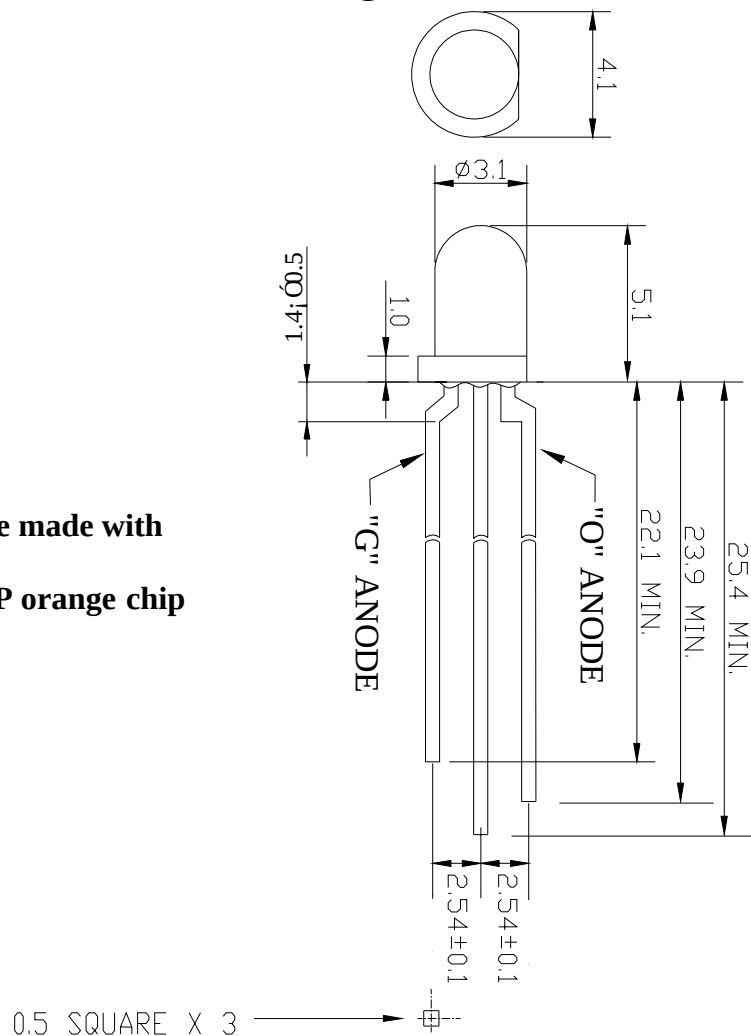
Features

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

Description

The Green and orange lamps are made with GaP/GaP green chip, GaAsP/GaP orange chip and white diffused epoxy resin.

Package Dimensions



1.All dimensions are in millimeters.

2.Tolerance is ± 0.25 mm unless otherwise noted.

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT0362-24-D62	GaP/GaP	Green	White diffused
	GaAsP/GaP	Orange	



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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 :

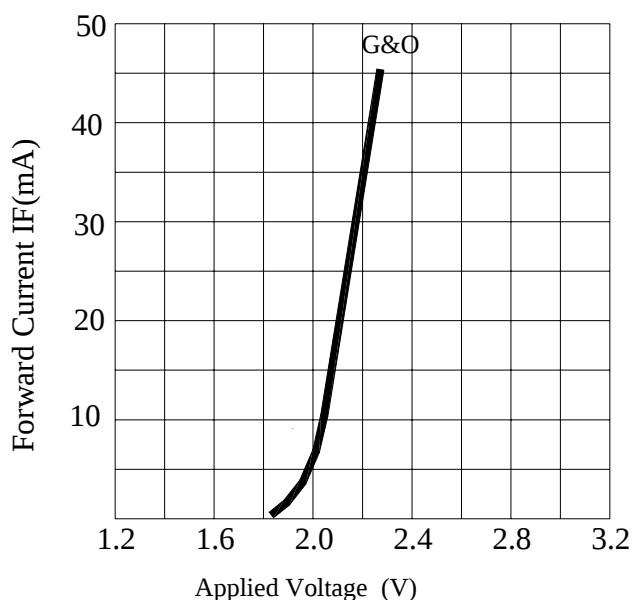
Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	G	Iv	If=20mA	20.4	34.0		mcd
	O			21.6	36.0		
Forward Voltage	G	Vf	If=20mA		2.1	2.6	V
	O				2.1	2.6	
Peak Wavelength	G	λP	If=20mA		567		nm
	O				635		
Dominant Wavelength	G	λD	If=20mA		572		nm
	O				626		
Reverse Current		Ir	Vr=5V			100	μA
Viewing Angle		$2\theta 1/2$	If=20mA		69		deg
Spectrum Line Halfwidth	G	$\Delta \lambda$	If=20mA		30		nm
	O				35		

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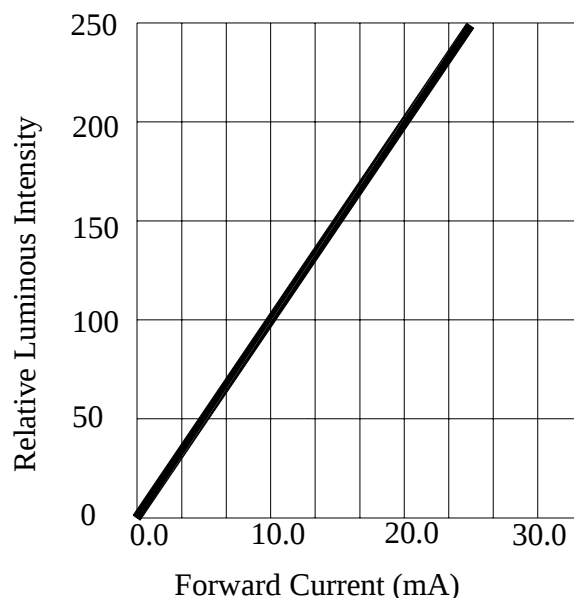
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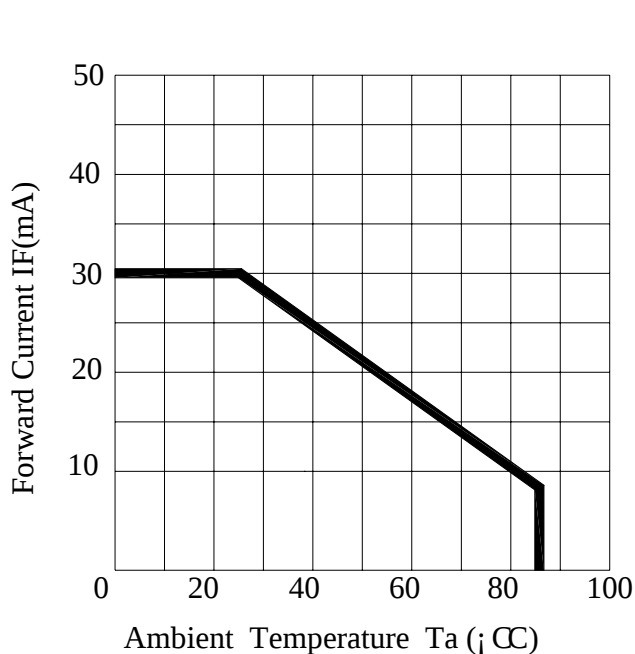
Typical Electrical / Optical Characteristics Curves :



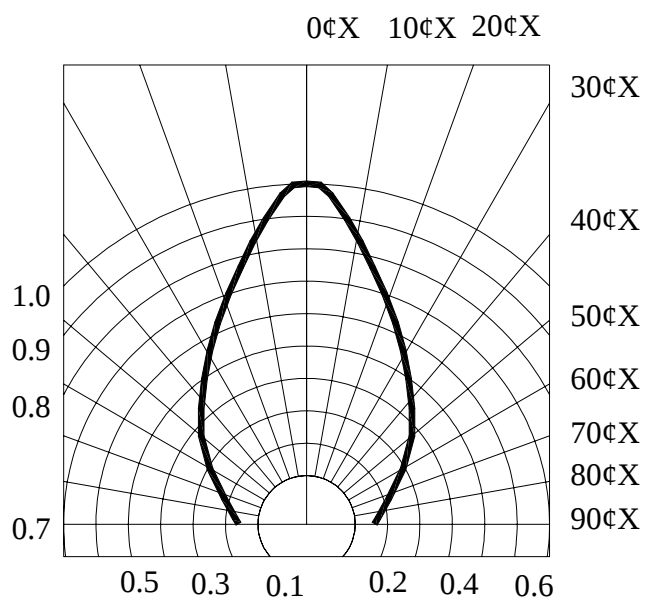
FORWARD CURRENT VS.APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



AMBIENT TEMPERATURE VS. FORWARD CURRENT



RADIATION DIAGRAM



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Reliability Test Method :

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

Criteria for Judging The Damage:

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	-----	Initial Data $\times 1.1$
Reverse Current	Ir	Vr=5V	-----	100 μ A
Luminous Intensity	Iv	If=20mA	Initial Data $\times 0.8$	-----