P/N: L-1503CB/1GD

**GREEN** 

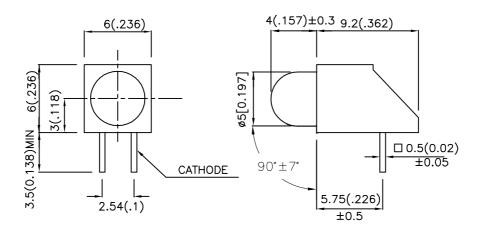
### **Features**

- •LOW POWER CONSUMPTION.
- •VERSATILE MOUNTING ON P.C. BOARD OR PANEL.
- •T-1 3/4 DIAMETER FLANGELESS PACKAGE.
- RELIABLE AND RUGGED.
- •UL RATING: 94V-0.
- •HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

## **Description**

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

# **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  0.25(0.01") unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

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DRAWN: F.LI

**CHECKED: Allen Liu** 

APPROVED: J. Lu

# **Kingbright**

### **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
	2.00	20110 1,700	Min. Typ.		201/2
L-1503CB/1GD	GREEN (GaP)	GREEN DIFFUSED	5	20	60°

#### Note

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I==20mA
λD	Dominant Wavelength	Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	Green	2.2	2.5	V	IF=20mA
IR	Reverse Current	Green		10	uA	VR = 5V

# Absolute Maximum Ratings at Ta=25°C

Parameter	Green	Units			
Power dissipation	105	mW			
DC Forward Current	25	mA			
Peak Forward Current [1]	140	mA			
Reverse Voltage	5	V			
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

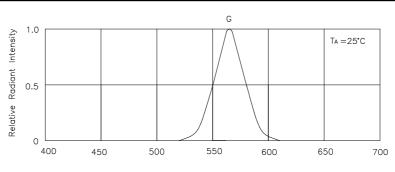
#### Notes

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

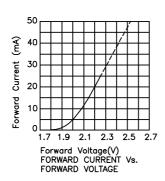
# Kingbright

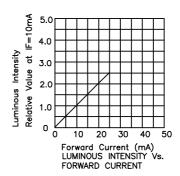


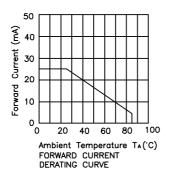
wavelength  $\lambda$  (nm) RELATIVE INTENSITY Vs. WAVELENGTH

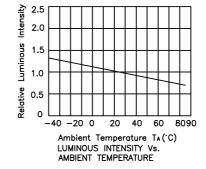
Green

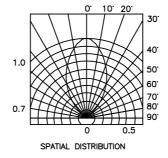
### L-1503CB/1GD











#### Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous intensity/ luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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