#### T-1 (3mm) QUAD-LEVEL LED INDICATOR

Part Number: L-7104SB/4GD

Green

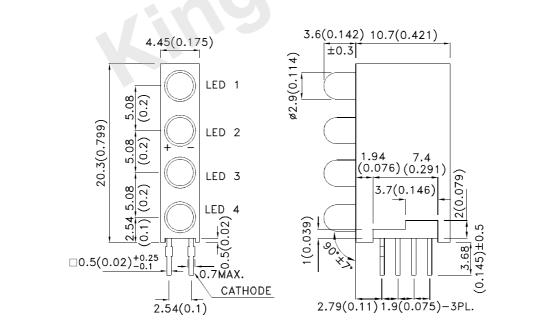
#### **Features**

- Quad-level design, save board space.
- Different color combination available.
- Black case enhances contrast.
- Housing 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 ±0.25(0.01") unless otherwise noted.

Lead spacing is measured where the leads emerge from the package.
The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

DATE: APR/06/2013 DRAWN: Q.M.Chen



ERP: 1102012927

#### **Selection Guide**

| Selection Guide |             |                |                        |      |                      |
|-----------------|-------------|----------------|------------------------|------|----------------------|
| Part No.        | Dice        | Lens Type      | lv (mcd) [2]<br>@ 10mA |      | Viewing<br>Angle [1] |
|                 |             |                | Min.                   | Тур. | 201/2                |
| L-7104SB/4GD    | Green (GaP) | Green Diffused | 10                     | 25   | 40°                  |

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C

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

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### Absolute Maximum Ratings at TA=25°C

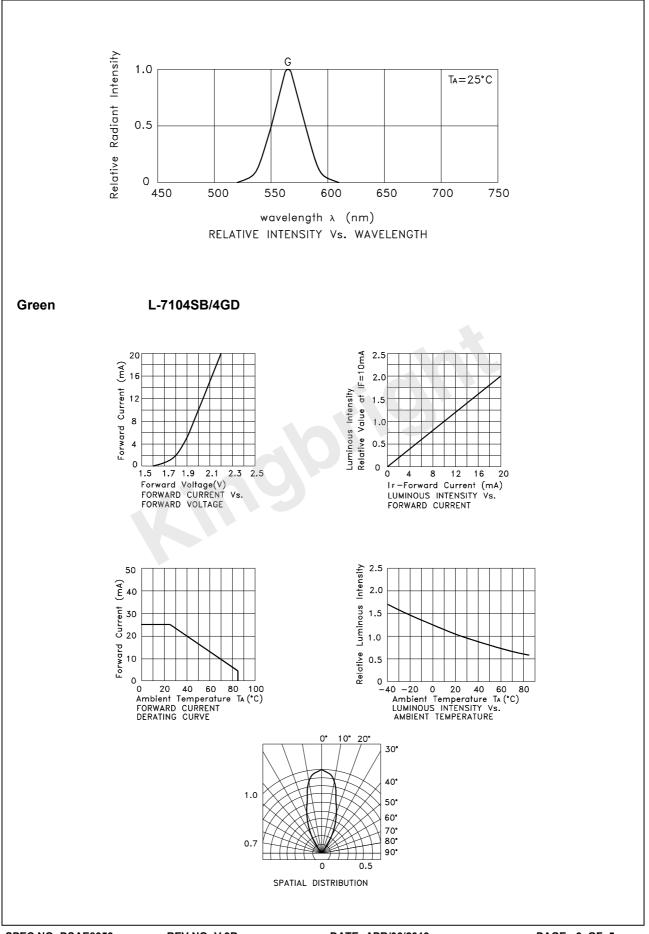
| Parameter                     | Green               | Units |  |  |
|-------------------------------|---------------------|-------|--|--|
| Power dissipation             | 62.5                | mW    |  |  |
| DC Forward Current            | 25                  | mA    |  |  |
| Peak Forward Current [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 |       |  |  |

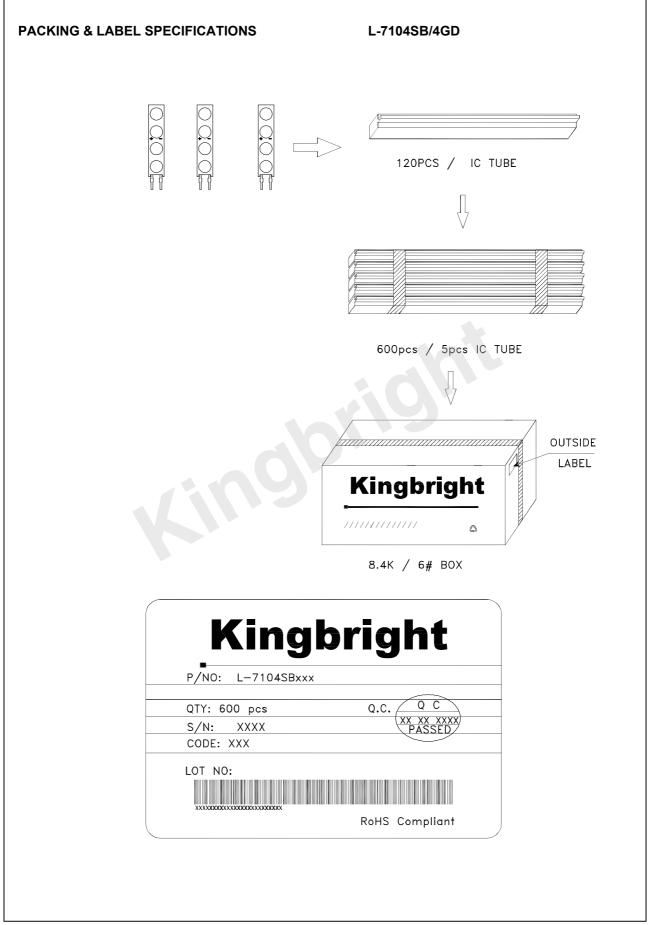
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

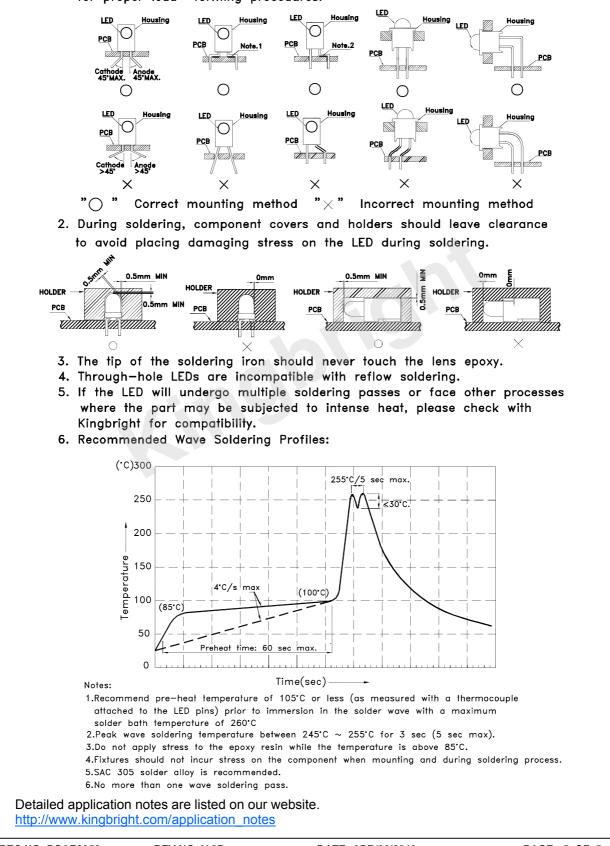
3. 5mm below package base.





#### PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.



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