#### **1.8mm BI-LEVEL CIRCUIT BOARD INDICATOR**

Part Number: L-4060VH/2YD

Yellow

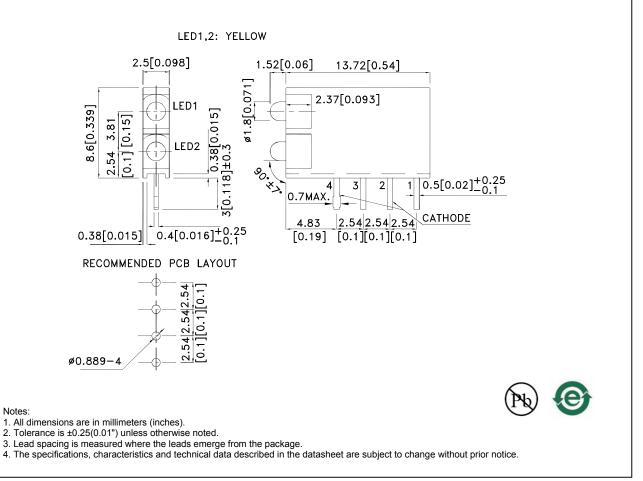
#### **Features**

- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

#### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

#### **Package Dimensions**



REV NO: V.13B **CHECKED: Allen Liu** 

DATE: SEP/27/2013 **DRAWN: D.N.Huang** 

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#### Salaatian Cuida

| Part No.     | Dice               | Lens Type       | lv (mcd) [2]<br>@ 10mA |      | Viewing<br>Angle [1] |  |
|--------------|--------------------|-----------------|------------------------|------|----------------------|--|
|              |                    |                 | Min.                   | Тур. | 201/2                |  |
| L-4060VH/2YD | Yellow (GaAsP/GaP) | Yellow Diffused | 4                      | 8    | 70°                  |  |

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

3. 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          | Yellow | 590  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Yellow | 588  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Yellow | 35   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Yellow | 20   |      | pF    | VF=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Yellow | 2.1  | 2.5  | V     | I⊧=20mA         |
| lr     | Reverse Current          | Yellow |      | 10   | uA    | Vr = 5V         |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

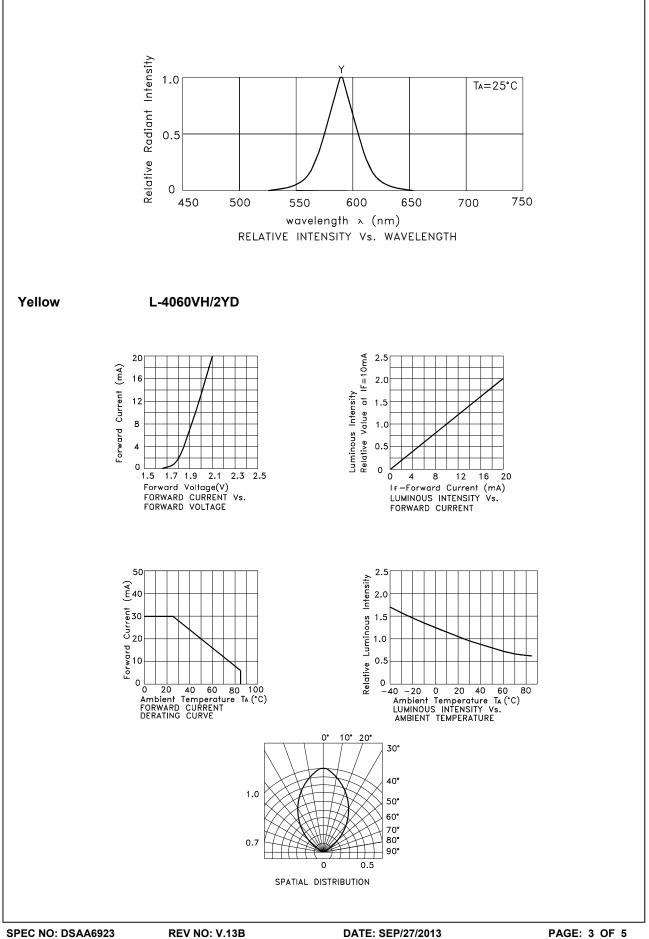
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

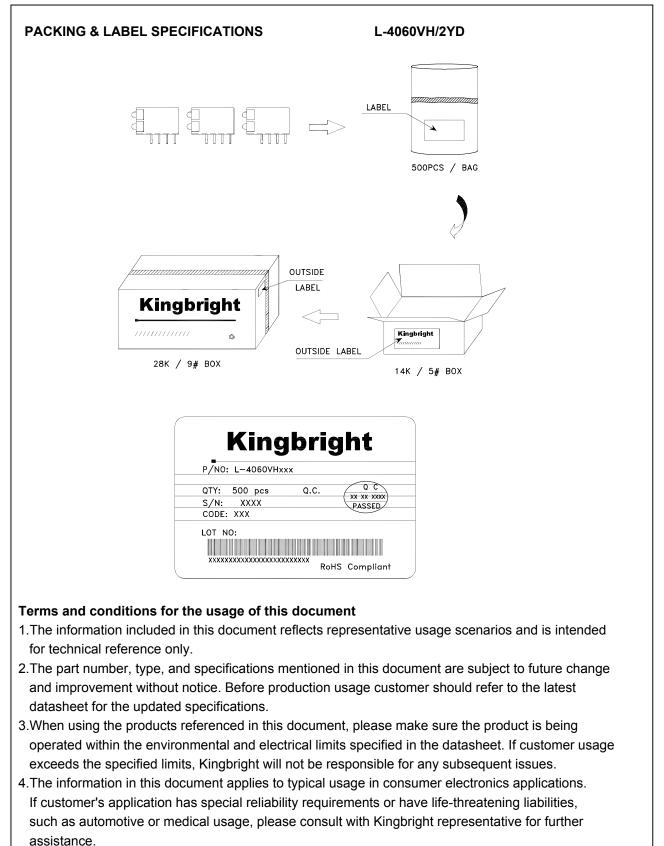
#### Absolute Maximum Ratings at TA=25°C

| Parameter                     | Yellow              | Units |  |  |
|-------------------------------|---------------------|-------|--|--|
| Power dissipation             | 75                  | mW    |  |  |
| DC Forward Current            | 30                  | 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 |       |  |  |
| Notos:                        |                     |       |  |  |

Notes

1.1/10 Duty Cycle, 0.1ms Pulse Width.
2.2mm below package base.
3.5mm below package base.





- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6.All design applications should refer to Kingbright application notes available at <a href="http://www.kingbright.com/application\_notes">http://www.kingbright.com/application\_notes</a>

#### 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.

