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

Part Number: L-7104SA/3YD Yellow

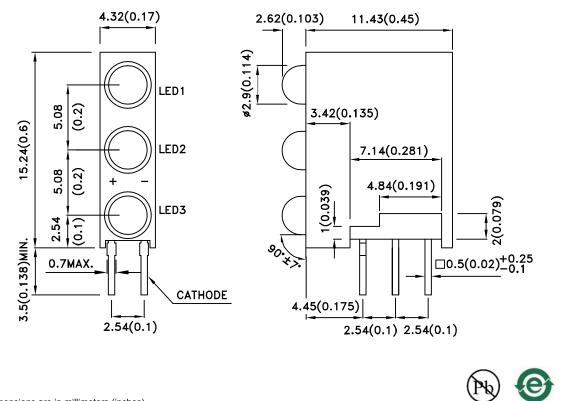
### **Features**

- 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**



#### 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/15/2013 DRAWN: F.Cui

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## Salaatian Cuida

| Part No.     | Dice               | ce Lens Type Iv (mcd) [2]<br>@ 10mA |      | <i>,</i> <b>- -</b> | Viewing<br>Angle [1] |
|--------------|--------------------|-------------------------------------|------|---------------------|----------------------|
|              |                    |                                     | Min. | Тур.                | 201/2                |
| L-7104SA/3YD | Yellow (GaAsP/GaP) | Yellow Diffused                     | 8    | 15                  | 40°                  |

Notes:

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

2. 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     | IF=20mA         |
| lr     | Reverse Current          | Yellow |      | 10   | uA    | VR = 5V         |

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

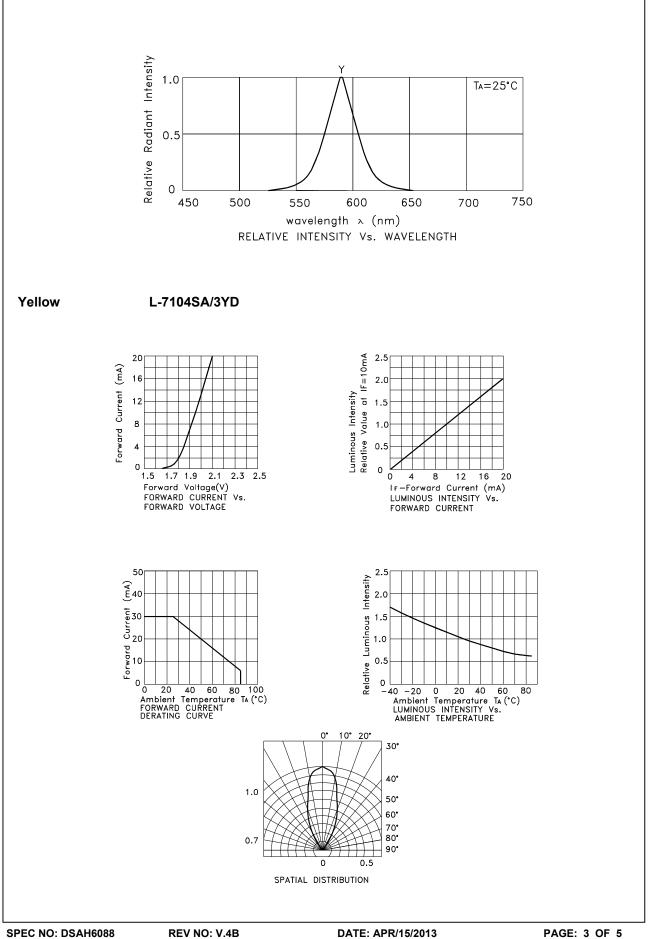
### Absolute Maximum Ratings at TA=25°C

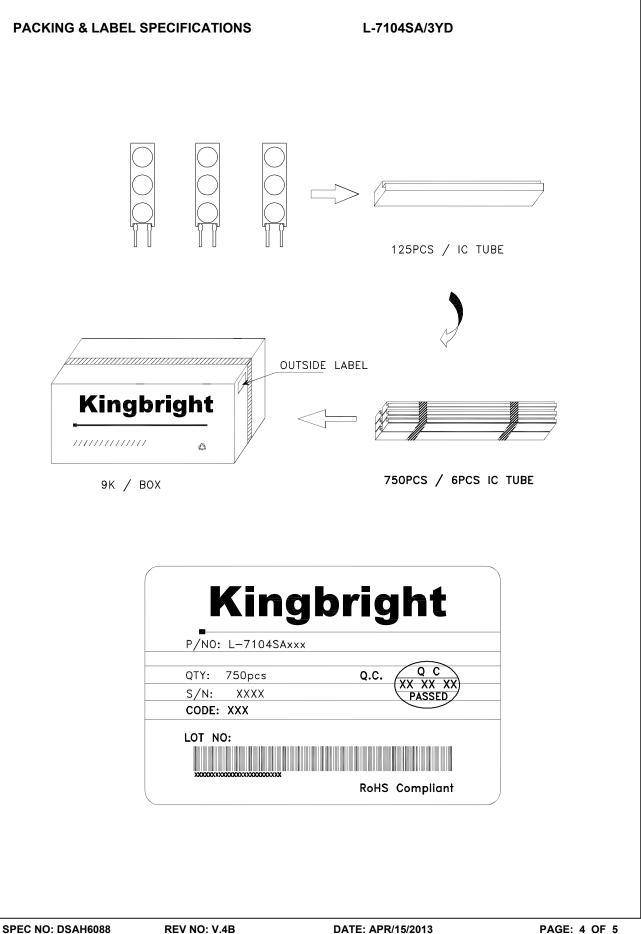
| Yellow              |   |  |
|---------------------|---|--|
| 75                  | mW  |  |
| 30                  |   |  |
| 140                 | mA  |  |
| 5                   | V   |  |
| -40°C To +85°C      |   |  |
| 260°C For 3 Seconds |   |  |
| 260°C For 5 Seconds |   |  |
|                     | 30<br>140<br>5<br>-40°C To +85°C<br>260°C For 3 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.

