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

Part Number: WP7104ALUP/2YD-0L Yellow

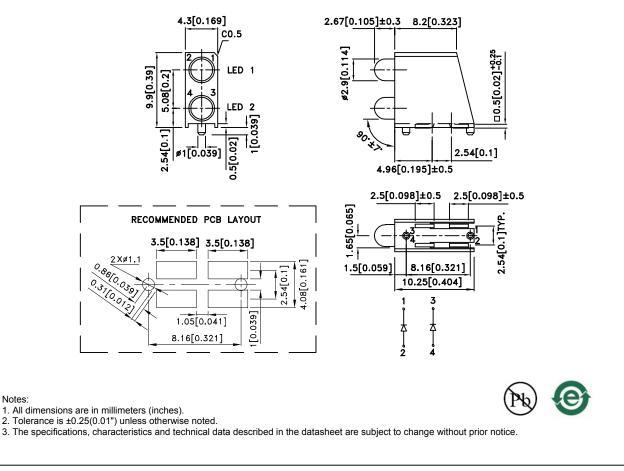
#### Features

- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Moisture sensitivity level : level 3.
- Housing material: PPA.
- Housing UL rating : 94V-0.
- High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

#### Package Dimensions

### Description

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



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#### Selection Guide

Selection Guide											
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]						
			Min.	Тур.	201/2						
WP7104ALUP/2YD-0L	Yellow (GaAsP/GaP)	Yellow Diffused	8	15	50°						

Notes:

1.  $\theta$ /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 CIE127-2007 standards.

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

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	IF=10mA
λD [1]	Dominant Wavelength	Yellow	588		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	IF=10mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Yellow	1.95	2.5	V	IF=10mA
lr	Reverse Current	Yellow		10	uA	VR=5V

Notes:

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

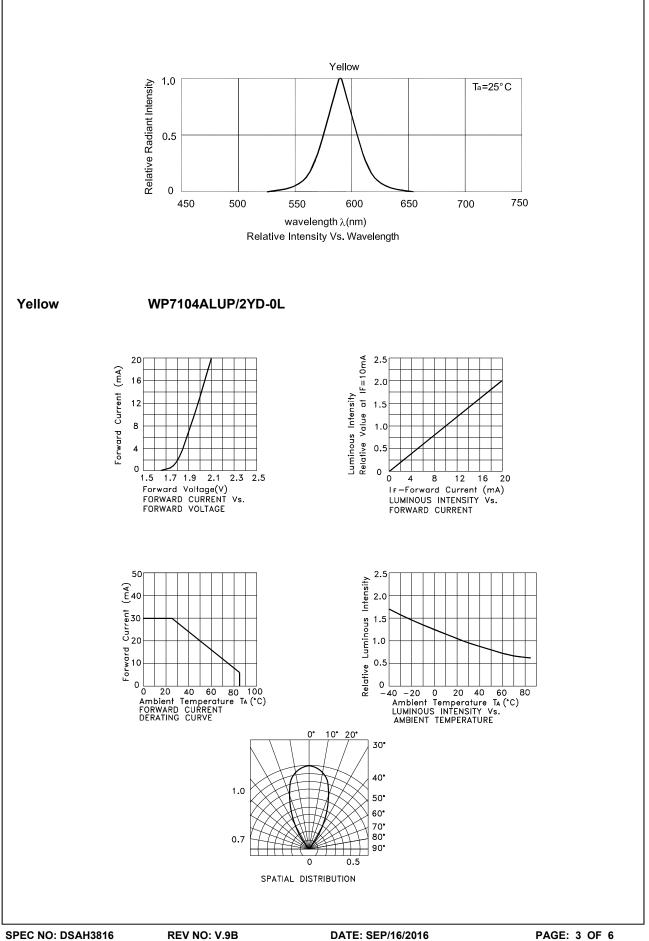
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

#### Absolute Maximum Ratings at TA=25°C Parameter Values Units Power dissipation 75 mW 30 DC Forward Current mΑ Peak Forward Current [1] 140 mΑ 5 V **Reverse Voltage Operating Temperature** -40°C To +85°C -40°C To +85°C Storage Temperature

Notes:

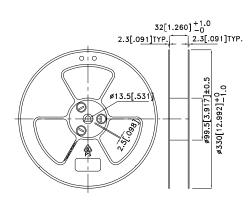
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

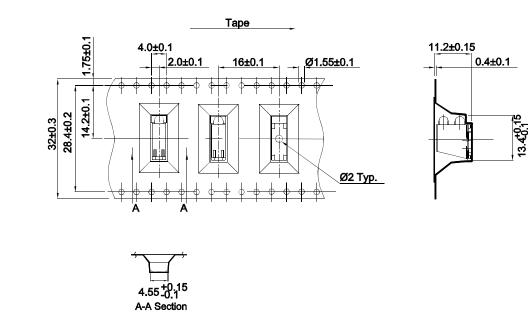


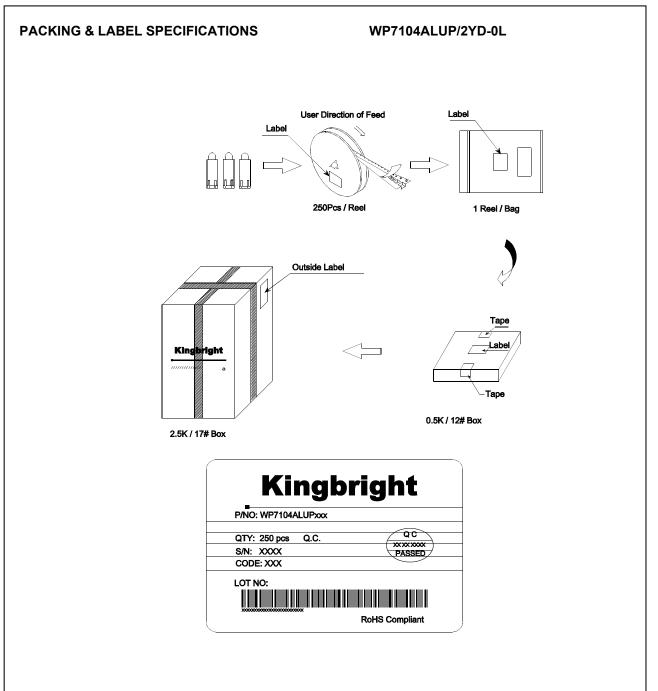
### WP7104ALUP/2YD-0L

### **Reel Dimension**



Tape Dimensions (Units : mm)





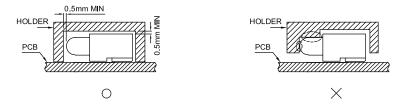
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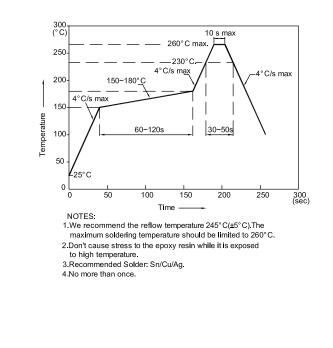
#### PRECAUTIONS

- 1.A moisture barrier bag (MBB) containing LEDs shall be kept in an environment with temperature below 40°C and humidity below 90% RH.
- A MBB shall be kept sealed until the LEDs contained in that bag are to be used immediately.
- Storge in an environment with temperature  $5{\sim}30^\circ\,\mathrm{C}$  and humidity below 60% RH.
- 2.After a MBB has been opened, all LEDs contained in that bag shall complete soldering process within according to the conditions listed on the Kingbright MBB.
- 3.If the 10% spot of a humidity indicator card (HIC) indicates wet, LEDs shall be baked according to the conditions listed on the Kingbright MBB.
- 4.During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



5. The tip of the soldering iron should never touch the lens epoxy.

- 6.After soldering, allow at least three minutes for the component to cool down to room temperature before further operations.
- 7.If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
- 8.Recommended Reflow Soldering Profiles For SMD Housing LEDs



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