### T-1 (3mm) BLINKING LED LAMP

Part Number: L-36BYD

Yellow

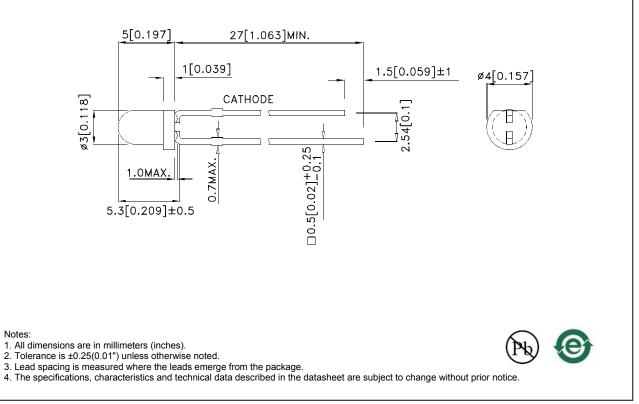
#### Features

- T-1 package with rectangular base.
- With built-in blinking IC.
- Operation voltage from 3.5V to 14V.
- Blinking frequency from 3.0Hz to 1.5Hz.
- RoHS compliant.

#### Description

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

#### **Package Dimensions**



SPEC NO: DSAD0619 APPROVED: WYNEC REV NO: V.7B CHECKED: Allen Liu DATE: JAN/02/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1101003804

#### **Selection Guide** lv (mcd) Viewing V= 9V Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. 60° L-36BYD Yellow (GaAsP/GaP) Yellow Diffused 8 15

Notes: 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

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

Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow		590		nm	
λD	Dominant Wavelength	Yellow		588		nm	
Δλ1/2	Spectral Line Half-width	Yellow		35		nm	
lf	Forward Current	Yellow	8	22		mA	Min:VF=3.5V Typ:VF=5V
Ison	Supply Current	Yellow		8		mA	VF=3.5V
Ison	Supply Current	Yellow		44		mA	VF=14V
f	Blink Frequency	Yellow	1.5		3	Hz	VF=3.5V~14V

Note: 1.Wavelength value is traceable to the CIE127-2007 compliant national standards.

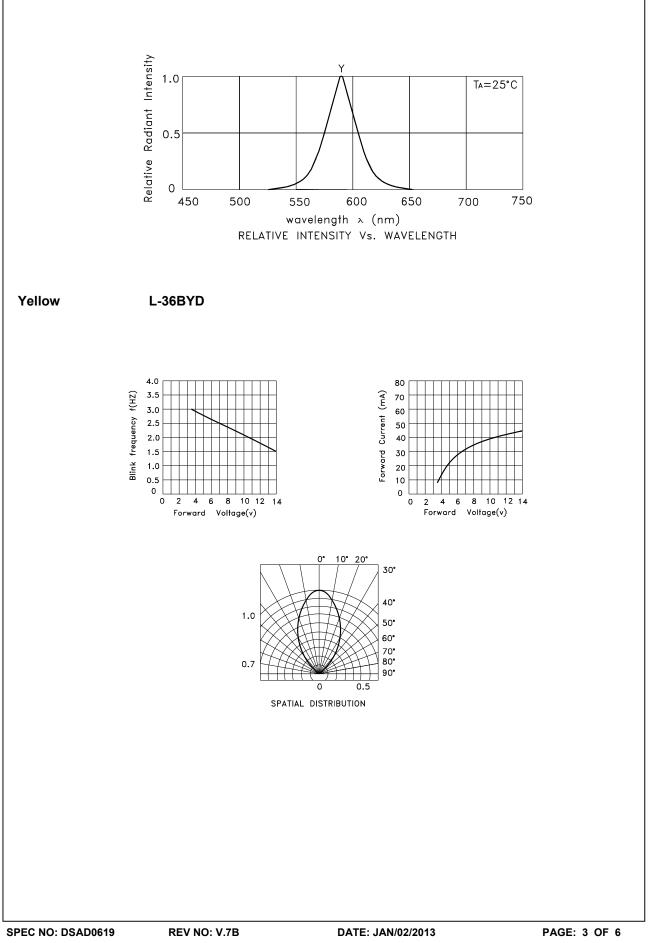
#### Absolute Maximum Ratings at TA=25°C

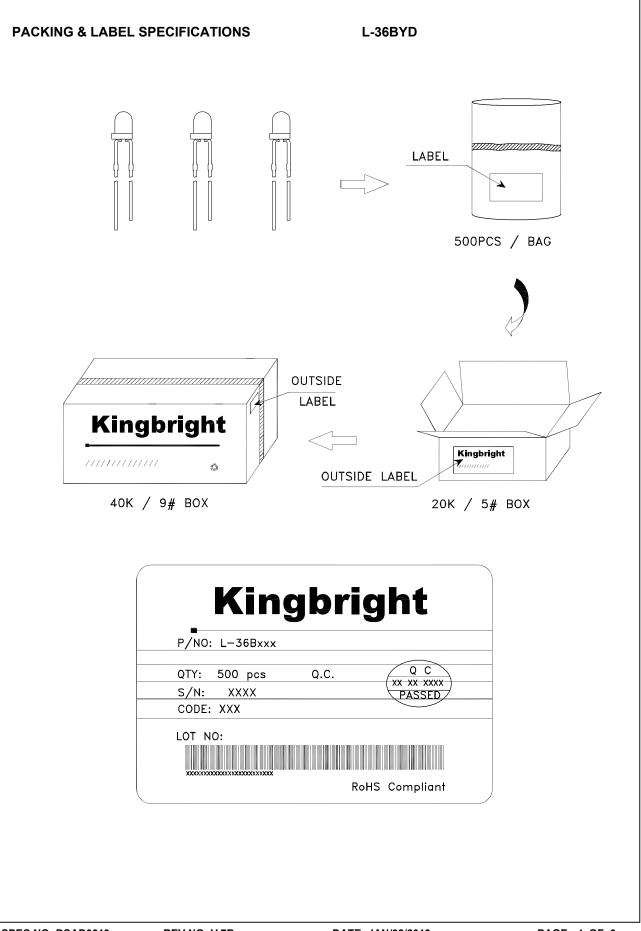
Yellow				
310	mW			
14	V			
0.5	V			
Operating Temperature -40°C To +70°C				
-40°C To +85°C				
ead Solder Temperature [1] 260°C For 3 Seconds				
ad Solder Temperature [2] 260°C For 5 Seconds				
	310 14 0.5 -40°C To +70°C -40°C To +85°C 260°C For 3 Seconds			

Notes:

1. 2mm below package base.

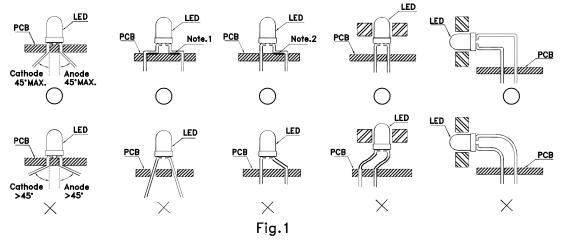
2. 5mm below package base.





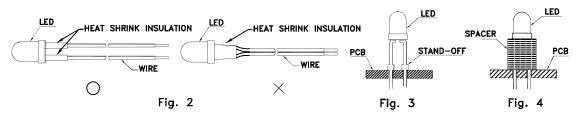
### PRECAUTIONS

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. (Fig. 1)



 $\bigcirc$  " Correct mounting method "imes" Incorrect mounting method

- When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)

