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

Part Number: L-36BID

High Efficiency Red

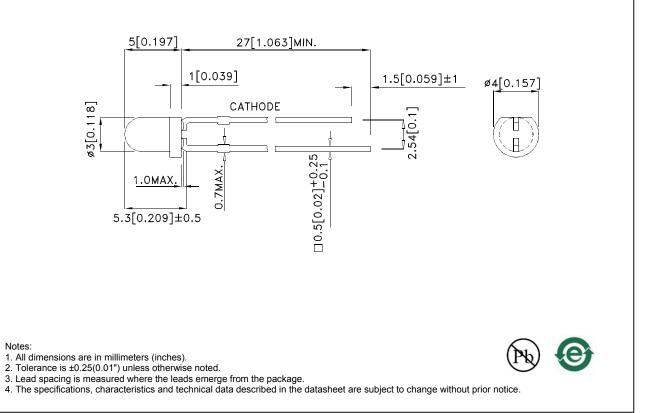
#### Features

- 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

#### **Package Dimensions**



SPEC NO: DSAB7626 APPROVED: WYNEC REV NO: V.8A CHECKED: Allen Liu DATE: APR/03/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1101003774

#### **Selection Guide** lv (mcd) Viewing V= 9V Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 12 25 L-36BID High Efficiency Red (GaAsP/GaP) Red Diffused 60° \*6 \*15

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 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	High Efficiency Red		627		nm	
λD	Dominant Wavelength	High Efficiency Red		617		nm	
Δλ1/2	Spectral Line Half-width	High Efficiency Red		45		nm	
lf	Forward Current	High Efficiency Red	8	22		mA	Min:VF=3.5V Typ:VF=5V
Ison	Supply Current	High Efficiency Red		8		mA	VF=3.5V
Ison	Supply Current	High Efficiency Red		44		mA	VF=14V
f	Blink Frequency	High Efficiency Red	1.5		3	Hz	VF=3.5V~14V

Note:

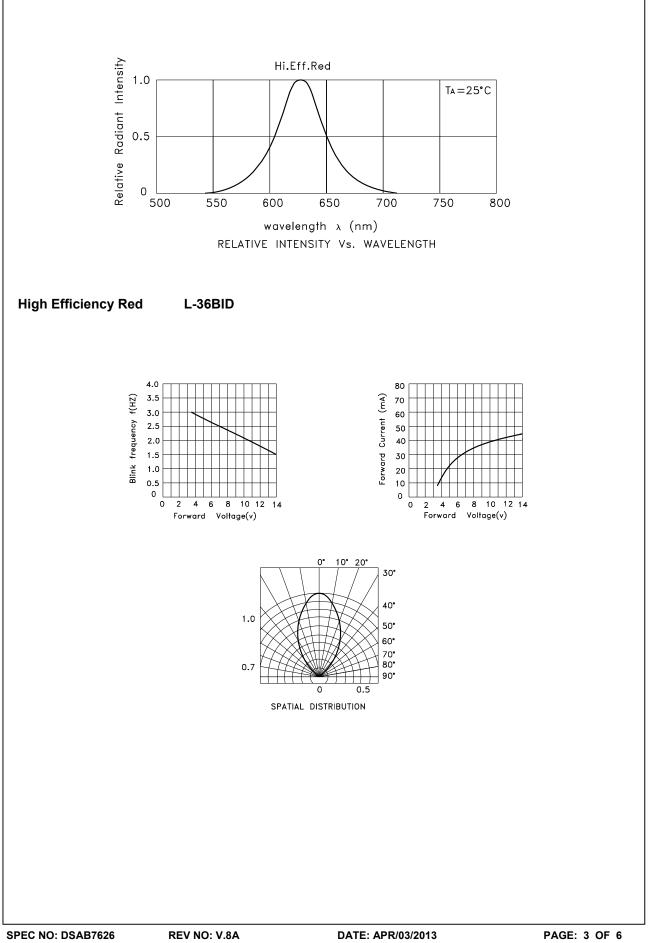
1.Wavelength value is traceable to the CIE127-2007 compliant national standards.

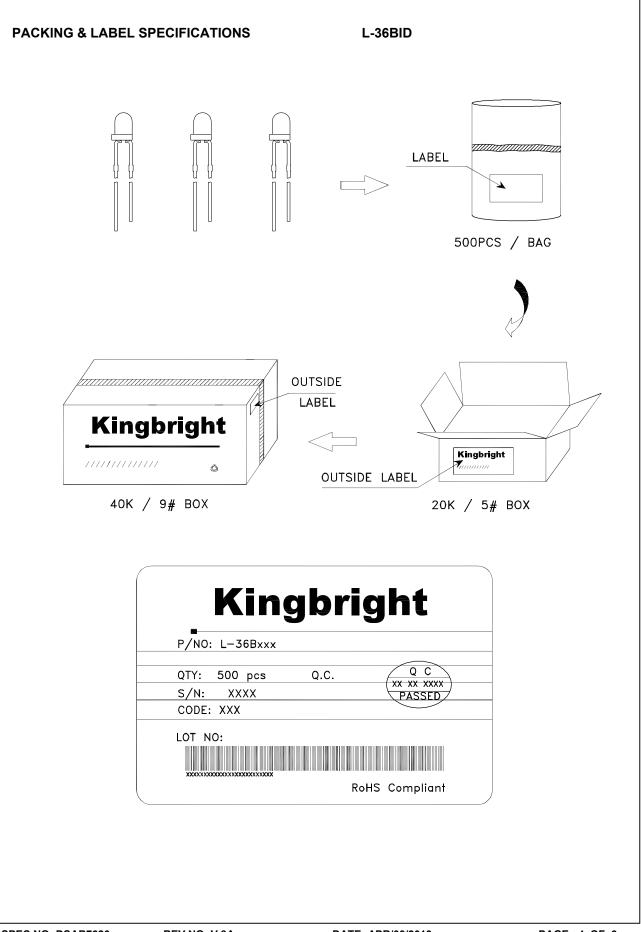
#### Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red		
Power dissipation	310	mW	
Forward Voltage	14	V	
Reverse Voltage	0.5	V	
Operating Temperature	-40°C To +70°C		
Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [1]	260°C For 3 Seconds		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

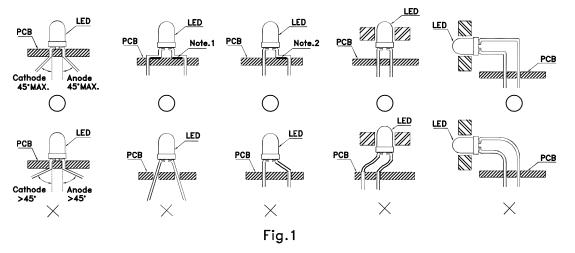
2. 5mm below package base.
2. 5mm below package base.



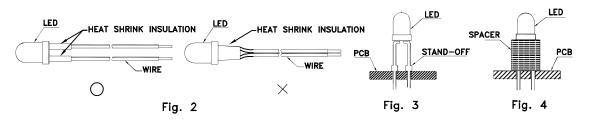


### PRECAUTIONS

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)



- $\supset$  " Correct mounting method "imes " Incorrect mounting method
- 2. 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)

