### T-1 3/4 (5mm) BI-LEVEL LED INDICATOR

Part Number: L-1503EB/2ID

High Efficiency Red

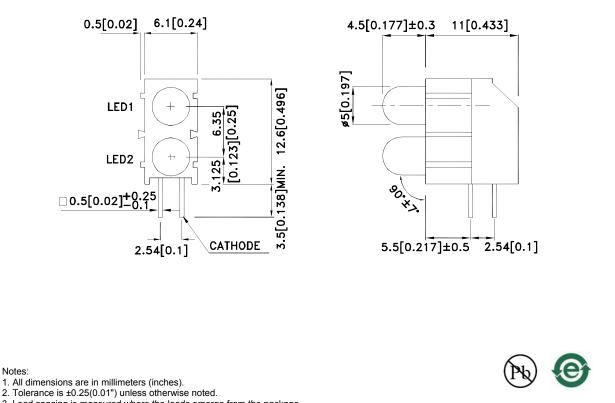
#### **Features**

- Pre-trimmed leads for pc board mounting.
- Stackable units.
- Colors can be mixed in a single housing.
- 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

#### **Package Dimensions**



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.

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#### **Selection Guide** lv (mcd) [2] Viewing @ 10mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 25 50 L-1503EB/2ID High Efficiency Red (GaAsP/GaP) Red Diffused $60^{\circ}$ \*12 \*40

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/ luminous Flux: +/-15%.
\*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	High Efficiency Red	627		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	617		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	I⊧=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2	2.5	V	I⊧=20mA
lr	Reverse Current	High Efficiency Red		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.

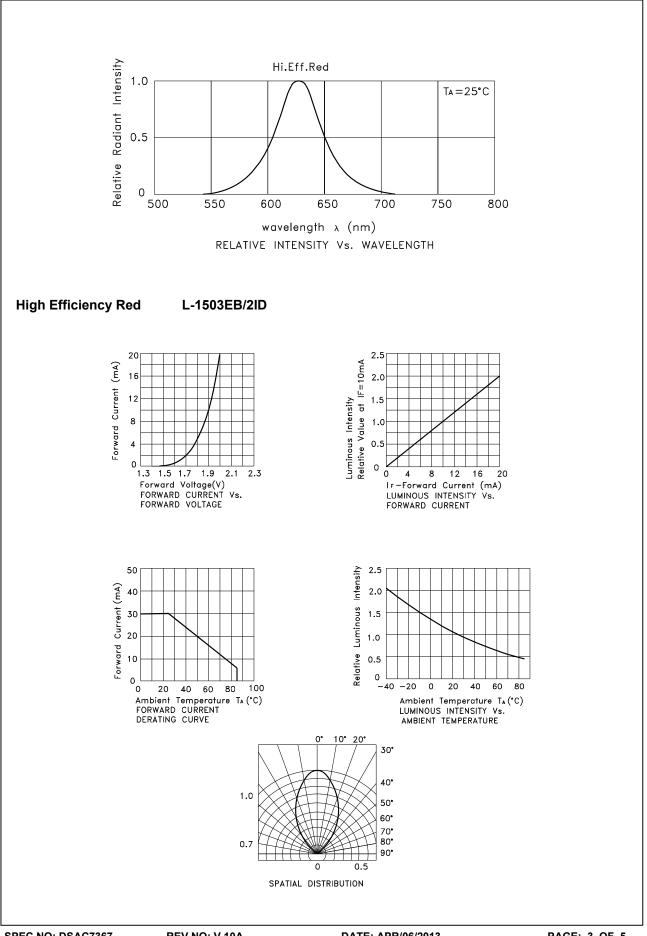
#### Absolute Maximum Ratings at TA=25°C

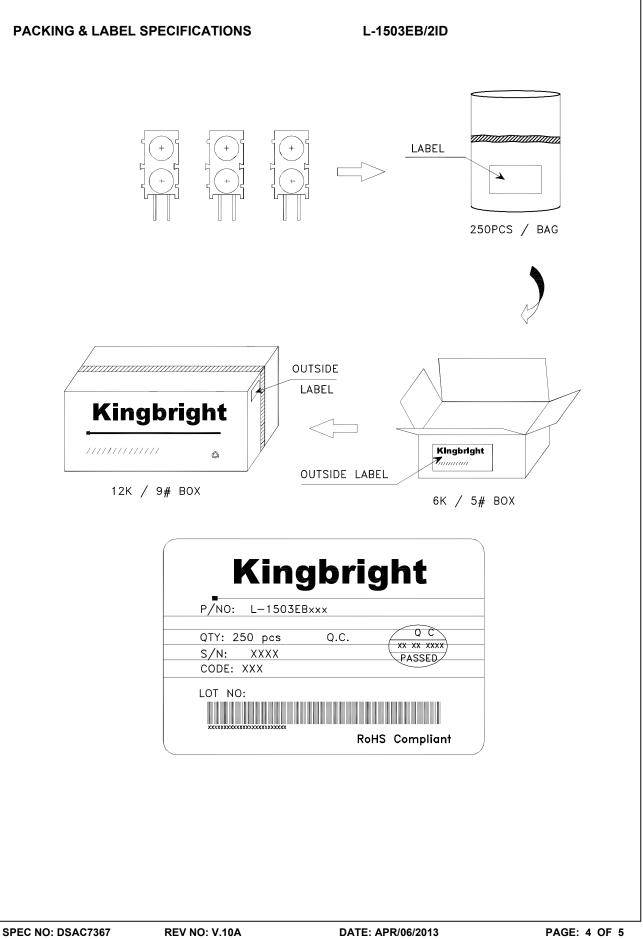
Parameter	High Efficiency Red			
Power dissipation	75			
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	ad Solder Temperature [2] 260°C For 3 Seconds			
ad Solder Temperature [3] 260°C For 5 Seconds				

Notes:

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

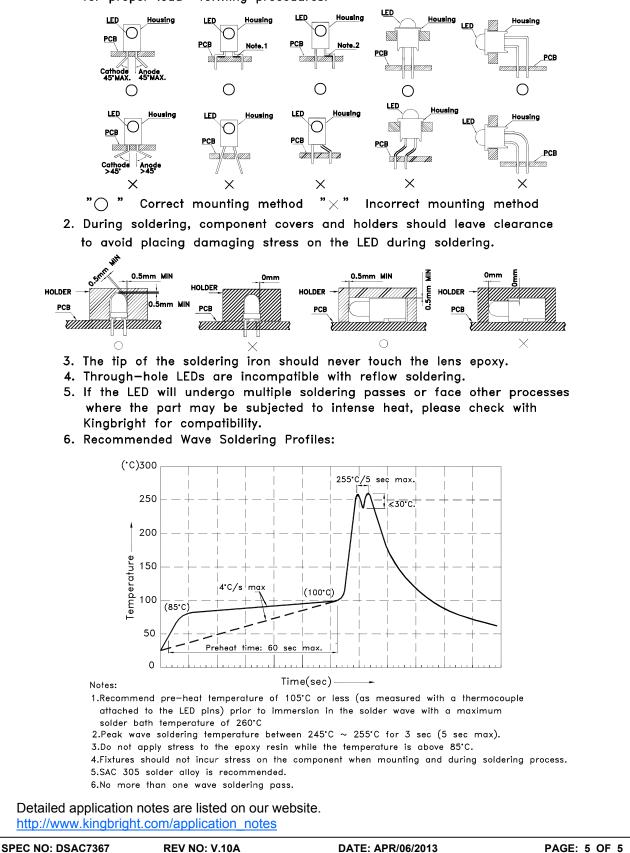
2. 2mm below package base.
3. 5mm below package base.





### 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.



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