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

Part Number: WP934SB/4ID

High Efficiency Red

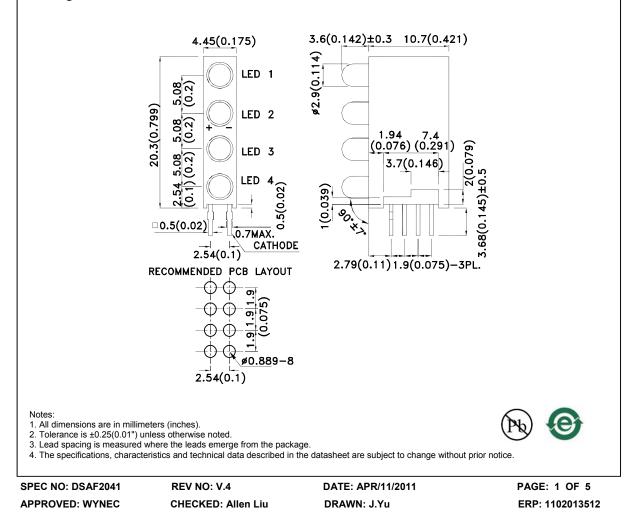
#### Features

- Quad-level design, save board space.
- Different color combination available.
- Black case enhances contrast.
- 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



| Selection Guide |                                 |              |                        |      |                      |  |  |  |  |  |
|-----------------|---------------------------------|--------------|------------------------|------|----------------------|--|--|--|--|--|
| Part No.        | Dice                            | Lens Type    | lv (mcd) [2]<br>@ 10mA |      | Viewing<br>Angle [1] |  |  |  |  |  |
|                 |                                 |              | Min.                   | Тур. | 201/2                |  |  |  |  |  |
| WP934SB/4ID     | High Efficiency Red (GaAsP/GaP) | Red Diffused | 15                     | 30   | 40°                  |  |  |  |  |  |

Notes:

1. 61/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

#### 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 | 625  |      | 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         |
| IR     | Reverse Current          | High Efficiency Red |      | 10   | uA    | VR = 5V         |

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

| Parameter                     | High Efficiency Red | Units |  |  |
|-------------------------------|---------------------|-------|--|--|
| Power dissipation             | 75                  | mW    |  |  |
| 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]   | 260°C For 3 Seconds |       |  |  |
| Lead Solder Temperature [3]   | 260°C For 5 Seconds |       |  |  |

Notes:

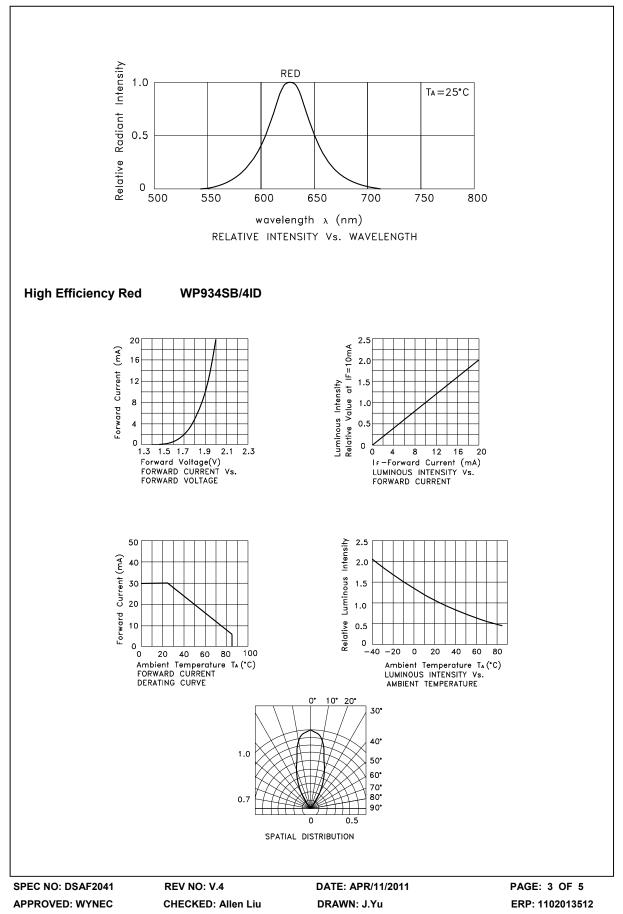
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

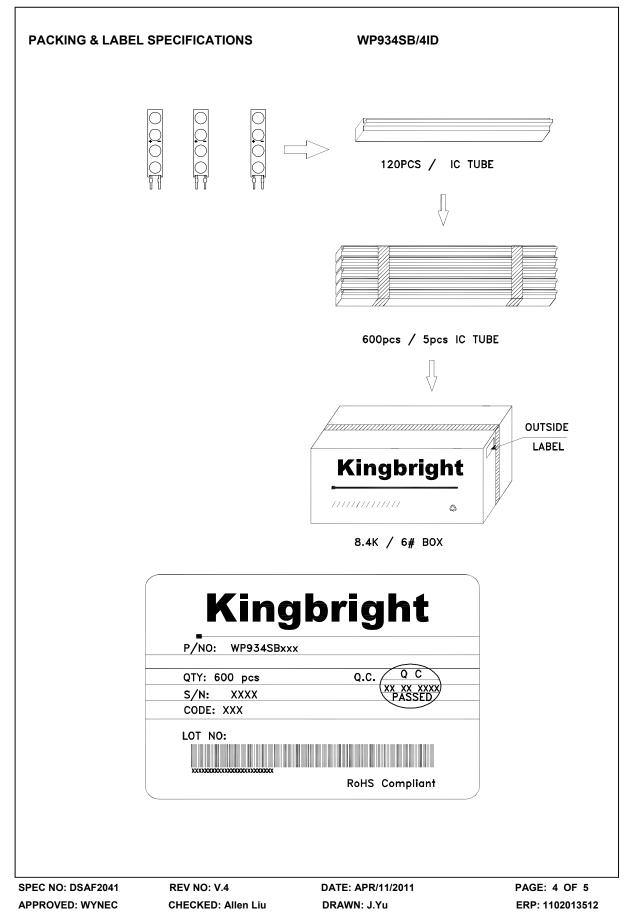
2. 2mm below package base.
3. 5mm below package base.

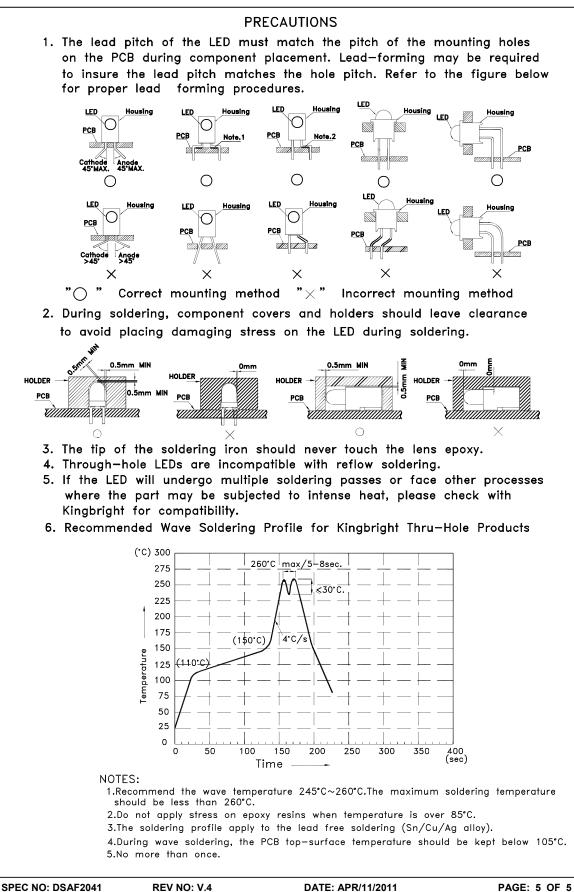
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REV NO: V.4 CHECKED: Allen Liu DATE: APR/11/2011 DRAWN: J.Yu

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**APPROVED: WYNEC** 

**CHECKED:** Allen Liu

DRAWN: J.Yu

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