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

Part Number: L-934EB/1Y1ID-RV

Yellow High Efficiency Red

Features

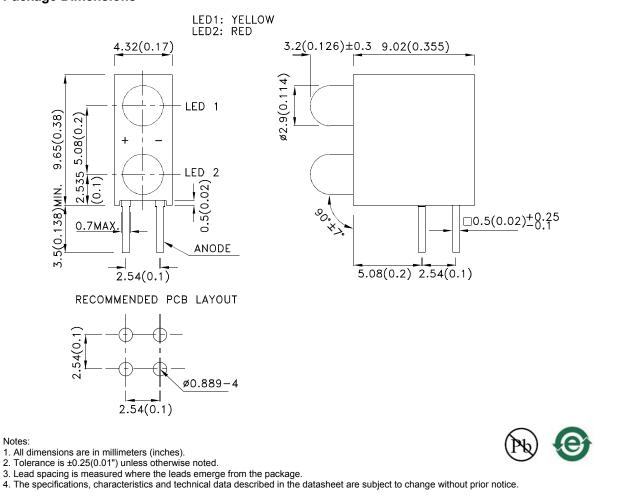
- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

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

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

Package Dimensions



SPEC NO: DSAE2852 APPROVED: WYNEC REV NO: V.2A CHECKED: Allen Liu DATE: NOV/29/2013 DRAWN: D.N.Huang PAGE: 1 OF 6 ERP: 1102013952

Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 10mA | | Viewing Angle [1] |
|------------------|---------------------------------|-------------------|------------------------|------|----------------------|
| | | | Min. | Тур. | 201/2 |
| L-934EB/1Y1ID-RV | Yellow (GaAsP/GaP) | Mallace Differend | 8 | 15 | 40° |
| | | Yellow Diffused | *8 | *15 | |
| | High Efficiency Red (GaAsP/GaP) | Ded Diffused | 12 | 30 | 40° |
| | | Red Diffused | *10 | *20 | |

Notes:

θ1/2 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.

| Symbol | Parameter | Device | Тур. | Тур. Мах. | | Test Conditions |
|--------|--------------------------|-------------------------------|------------|------------|----|-----------------|
| λpeak | Peak Wavelength | Yellow High Efficiency Red | 590 627 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Yellow High Efficiency Red | 588 617 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Yellow High Efficiency Red | 35 45 | | nm | IF=20mA |
| С | Capacitance | Yellow High Efficiency Red | 20 15 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Yellow High Efficiency Red | 2.1 2 | 2.5 2.5 | V | IF=20mA |
| lr | Reverse Current | Yellow High Efficiency Red | | 10 10 | uA | VR = 5V |

Electrical / Optical Characteristics at TA=25°C

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

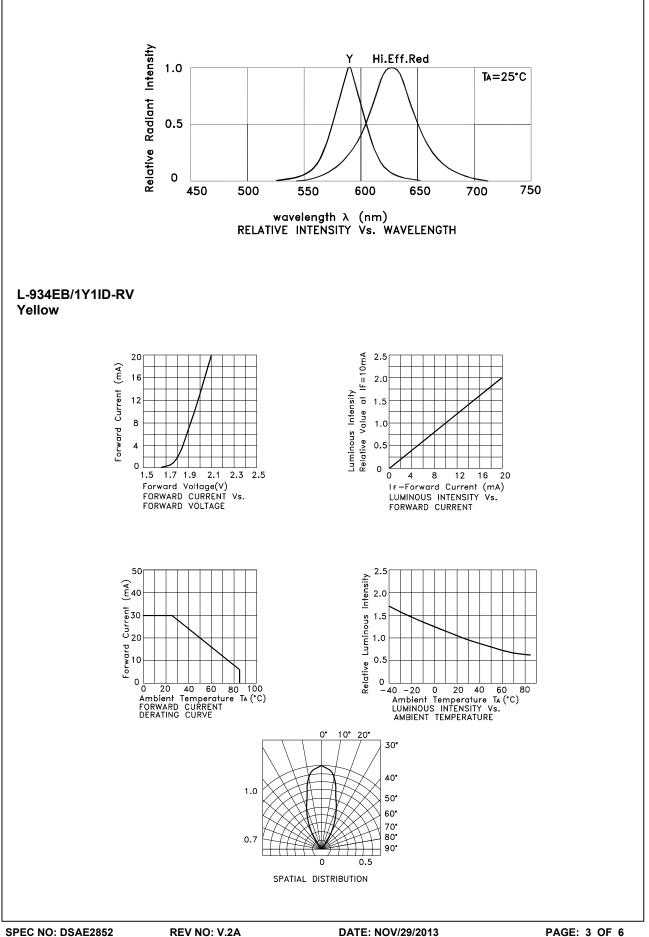
| Parameter | Yellow | High Efficiency Red | Units | | |
|---------------------------------|---------------------|---------------------|-------|--|--|
| Power dissipation | 75 | 75 | mW | | |
| DC Forward Current | 30 | 30 | mA | | |
| Peak Forward Current [1] | 140 | 160 | mA | | |
| Reverse Voltage | | 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:

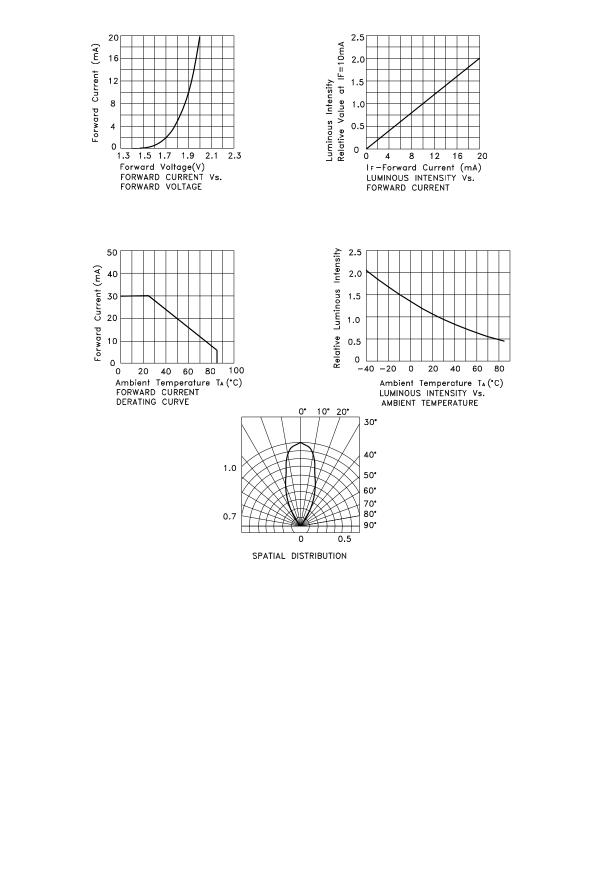
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

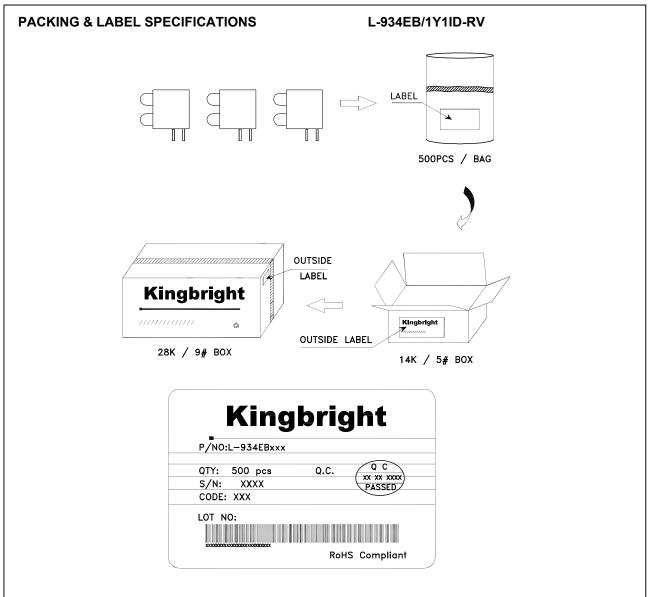
2. 2mm below package base.

3. 5mm below package base.



High Efficiency Red



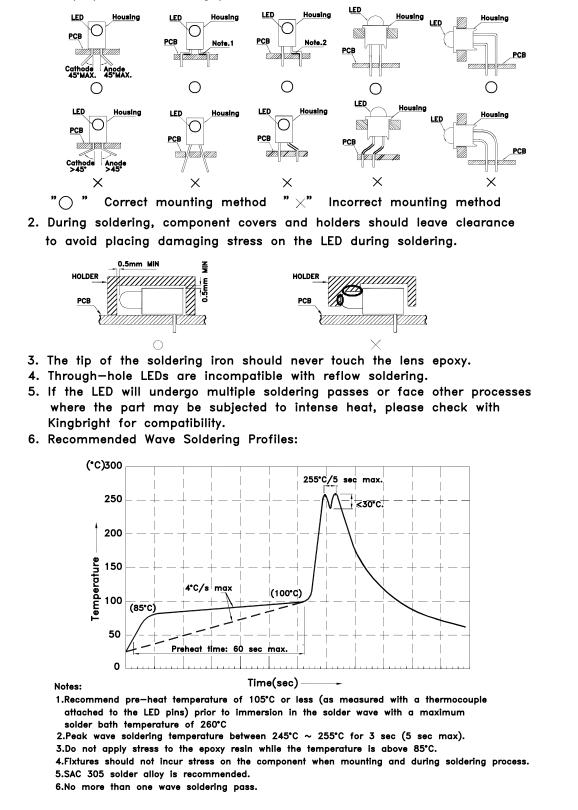


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PRECAUTIONS

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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