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## Kingbright

## 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.


## Package Dimensions

## Description

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


## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\left(0.01^{\prime \prime}\right)$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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## Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) [2] <br> @ 10mA |  | Viewing <br> Angle [1] |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Min. | Typ. | 201/2 |
| L-934EB/2ID | High Efficiency Red (GaAsP/GaP) | Red Diffused | 12 | 30 | $40^{\circ}$ |
|  |  |  | *10 | *20 |  |

Notes:

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

* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA $=25^{\circ} \mathrm{C}$

| Symbol | Parameter | Device | Typ. |  | Max. | Units | Test Conditions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\lambda$ peak | Peak Wavelength | High Efficiency Red | 627 | *627 |  | nm | $\mathrm{lF}=20 \mathrm{~mA}$ |
| $\lambda \mathrm{D}$ [1] | Dominant Wavelength | High Efficiency Red | 625 | *617 |  | nm | $\mathrm{IF}=20 \mathrm{~mA}$ |
| $\Delta \lambda 1 / 2$ | Spectral Line Half-width | High Efficiency Red | 45 |  |  | nm | $\mathrm{IF}=20 \mathrm{~mA}$ |
| C | Capacitance | High Efficiency Red | 15 |  |  | pF | $V_{F}=0 \mathrm{~V} ; \mathrm{f}=1 \mathrm{MHz}$ |
| $V_{F}$ [2] | Forward Voltage | High Efficiency Red | 2 |  | 2.5 | V | $\mathrm{IF}=20 \mathrm{~mA}$ |
| IR | Reverse Current | High Efficiency Red |  |  | 10 | uA | $V \mathrm{~V}=5 \mathrm{~V}$ |

Notes:

1. Wavelength: $+/-1 \mathrm{~nm}$.
2. Forward Voltage: $+/-0.1 \mathrm{~V}$.

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

Absolute Maximum Ratings at $\mathrm{TA}=25^{\circ} \mathrm{C}$

| 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 | $-40^{\circ} \mathrm{C}$ To $+85^{\circ} \mathrm{C}$ |  |
| Lead Solder Temperature [2] | $260^{\circ} \mathrm{C}$ For 3 Seconds |  |
| Lead Solder Temperature [3] | $260^{\circ} \mathrm{C}$ For 5 Seconds |  |

## Notes:

1. $1 / 10$ Duty Cycle, 0.1 ms Pulse Width.
2. 2 mm below package base
3. 5 mm below package base

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High Efficiency Red L-934EB/2ID


FORWARD VOLTAGE





SPATIAL DISTRIBUTION

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PACKING \& LABEL SPECIFICATIONS
L-934EB/2ID


500PCS / BAG


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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.

2. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.

3. The tip of the soldering iron should never touch the lens epoxy.
4. Through-hole LEDs are incompatible with reflow soldering.
5. If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
6. Recommended Wave Soldering Profiles:

