

4.8mm RIGHT ANGLE LED INDICATOR

L-73CB/3IDA

HIGH EFFICIENCY RED

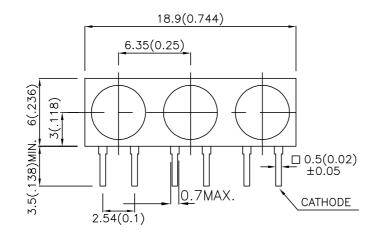
Features

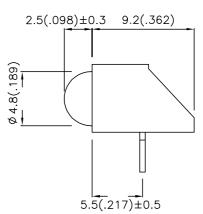
- •PRE-TRIMMED LEADS FOR PC MOUNTING.
- ●I.C. COMPATIBLE.
- •BLACK CASE ENHANCES CONTRAST RATIO.
- •WIDE VIEWING ANGLE.
- •HIGH RELIABILITY-LIFE MEASURED IN YEARS.
- •UL RATING: 94V-0.
- •HOUSING MATERIAL: TYPE 66 NYLON.
- •RoHS COMPLIANT.

Description

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

Package Dimensions





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Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- $3. \ \mbox{Lead}$ spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAC7363 REV NO: V.2 DATE: JUN/12/2005
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: S.H.CHEN

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Selection Guide

| Part No. | Dice | Dice Lens Type Iv (mcd) @ 10mA | | Viewing Angle | |
|-------------|---------------------------------|--------------------------------|------|------------------|-----------------------|
| | | | Min. | Тур. | 2 θ 1/2 |
| L-73CB/3IDA | HIGH EFFICIENCY RED (GaAsP/GaP) | RED DIFFUSED | 8 | 30 | 60° |

Note

 $1. \theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | High Efficiency Red | 627 | | nm | IF=20mA |
| λD | Dominant Wavelength | High Efficiency Red | 625 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red | 45 | | nm | IF=20mA |
| С | Capacitance | High Efficiency Red | 15 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | High Efficiency Red | 2.0 | 2.5 | V | IF=20mA |
| IR | Reverse Current | High Efficiency Red | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

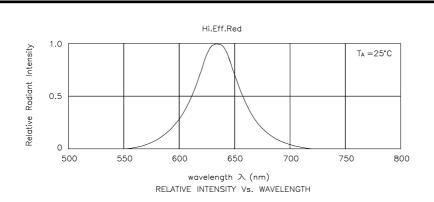
| Parameter | High Efficiency Red | Units | | |
|---------------------------------|--------------------------------------------|-------|--|--|
| Power dissipation | 105 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 160 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating / storage Temperature | -40°C To +85°C | | | |
| Lead Solder Temperature [2] | 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.

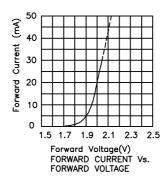
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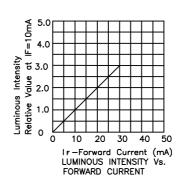
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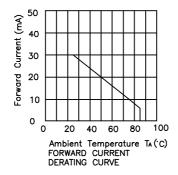


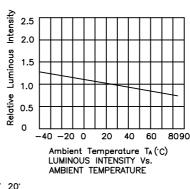
High Efficiency Red

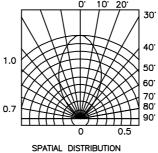
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Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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