

8.89mmx3.81mm LED LIGHT BAR

P/N: KB-2300ID

HIGH EFFICIENCY RED

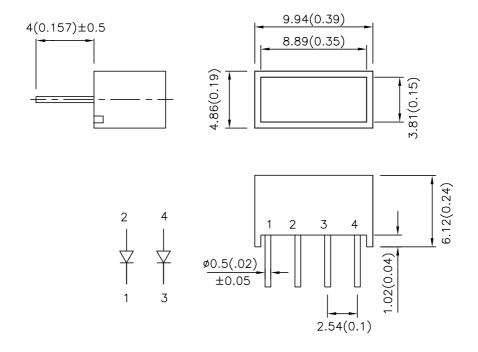
Features

- •UNIFORM LIGHT EMITTING AREA.
- •LOW CURRENT OPERATION.
- EASILY MOUNTED ON P.C. BOARDS.
- •FLUSH MOUNTABLE.
- •EXCELLENT ON/OFF CONTRAST.
- •CAN BE USED WITH PANELS AND LEGEND MOUNTS.
- •CATEGORIZED FOR LUMINOUS INTENSITY.
- 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 & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25 (0.01")$ unless otherwise noted.

2. Specifications are subject to change without notice.

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 REV NO: V.2
 DATE: DEC/06/2005
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 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: W.J.ZHU
 ERP:1334000068

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA	
	2.00	zone type	Min.	Тур.
KB-2300ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	10	36

Note:

Electrical / Optical Characteristics at Ta=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
lr	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red			
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	rating/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:

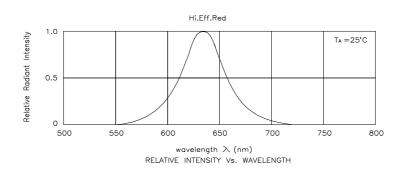
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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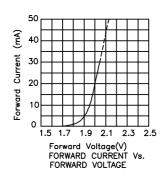
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

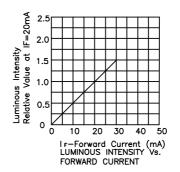
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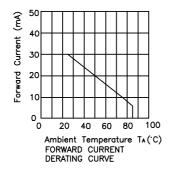


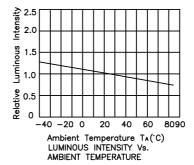
High Efficiency Red

KB-2300ID









Remarks

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

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

Note: Accuracy may depend on the sorting parameters.

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