

3.65x6.15mm SINGLE CHIP LED LIGHT BAR

L-1043ID

HIGH EFFICIENCY RED

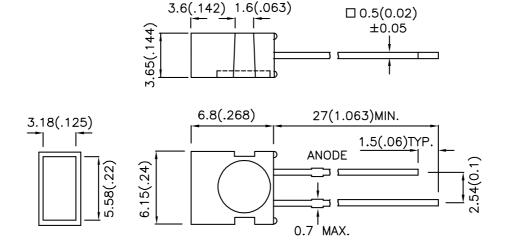
Features

- •FLAT RECTANGULAR LIGHT EMITTING SURFACE.
- •SINGLE COLOR.
- •IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- •EXCELLENT ON/OFF CONTRAST.
- •LONG LIFE SOLID STATE RELIABILITY.
- •THIS SERIES ARE TIN-DIPPED.
- ●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



Notes:

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

SPEC NO: DSAA8174 REV NO: V.8 DATE: MAR/22/2005 PAGE: 1 OF 3
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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
L-1043ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	1.8	10	100°

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

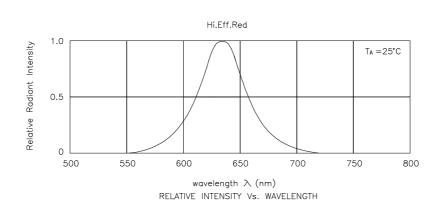
Parameter	High Efficiency Red	Units	
Power dissipation	105	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

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

SPEC NO: DSAA8174 REV NO: V.8 DATE: MAR/22/2005 PAGE: 2 OF 3 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: B.H.LI

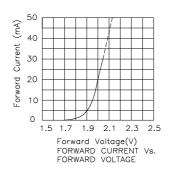
Note:
1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

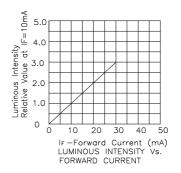
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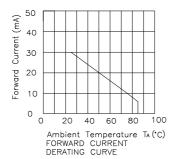


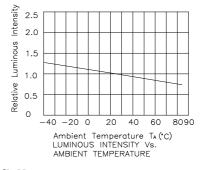
High Efficiency Red

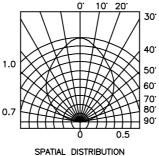
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Remarks

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.

SPEC NO: DSAA8174 REV NO: V.8 DATE: MAR/22/2005 PAGE: 3 OF 3
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