

T-1 3/4 (5mm) BI-LEVEL LED INDICATOR

P/N: L-1503EB/1I1GD

HIGH EFFICIENCY RED

GREEN

Features

- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- STACKABLE UNITS.
- COLORS CAN BE MIXED IN A SINGLE HOUSING.
- 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.

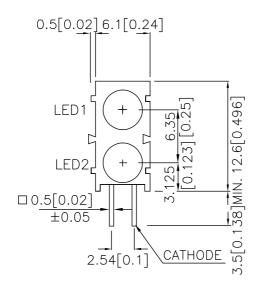
Description

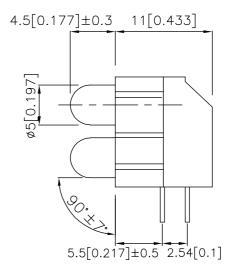
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions

LED1: L-1503ID(RED) LED2: L-1503GD(GREEN)





Notes:

- 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: DSAC9839 REV NO: V.5 DATE: APR/08/2006 PAGE: 1 OF 4
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.W.WANG

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 10 mA		Viewing Angle [1]
			Min.	Тур.	2 θ 1/2
L-1503EB/1I1GD	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	30	60°
L-1303EB/11IGD	GREEN (GaP)	GREEN DIFFUSED	5	20	60°

Notes:

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Green	627 565		nm	Ir=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	Ir=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	IF=20mA
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	Ir=20mA
lr	Reverse Current	High Efficiency Red Green		10 10	uA	VR = 5V

Notes:

- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

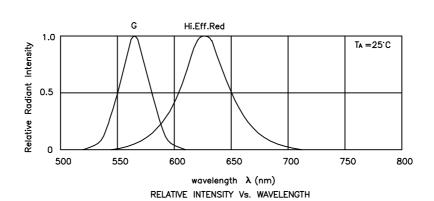
Absolute Maximum Ratings at Ta=25°C

Parameter	High Efficiency Red	Green	Units		
Power dissipation	105	105	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	5	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				

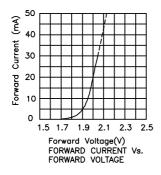
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

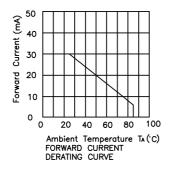
SPEC NO: DSAC9839 **REV NO: V.5** DATE: APR/08/2006 PAGE: 2 OF 4 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.W.WANG

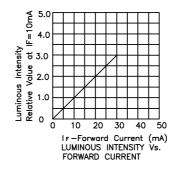
Kingbright

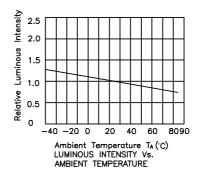


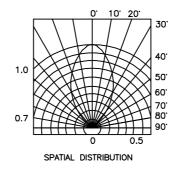
L-1503EB/1I1GD High Efficiency Red









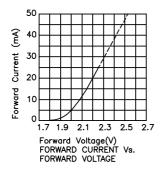


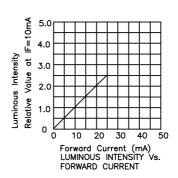
SPEC NO: DSAC9839 **REV NO: V.5** DATE: APR/08/2006 PAGE: 3 OF 4 **CHECKED: Allen Liu** DRAWN: Y.W.WANG

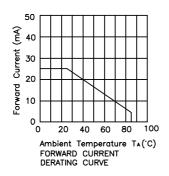
APPROVED: J. Lu

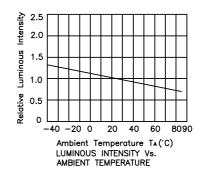
Kingbright

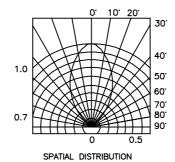
Green











SPEC NO: DSAC9839 REV NO: V.5 DATE: APR/08/2006 PAGE: 4 OF 4

APPROVED: J. Lu

CHECKED: Allen Liu DRAWN: Y.W.WANG