

Part Number: L-937SB/3EY1EGW

High Efficiency Red
Yellow
Green

Features

- Quad-level design, save board space.
- Different color combination available.
- Black case enhances contrast.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

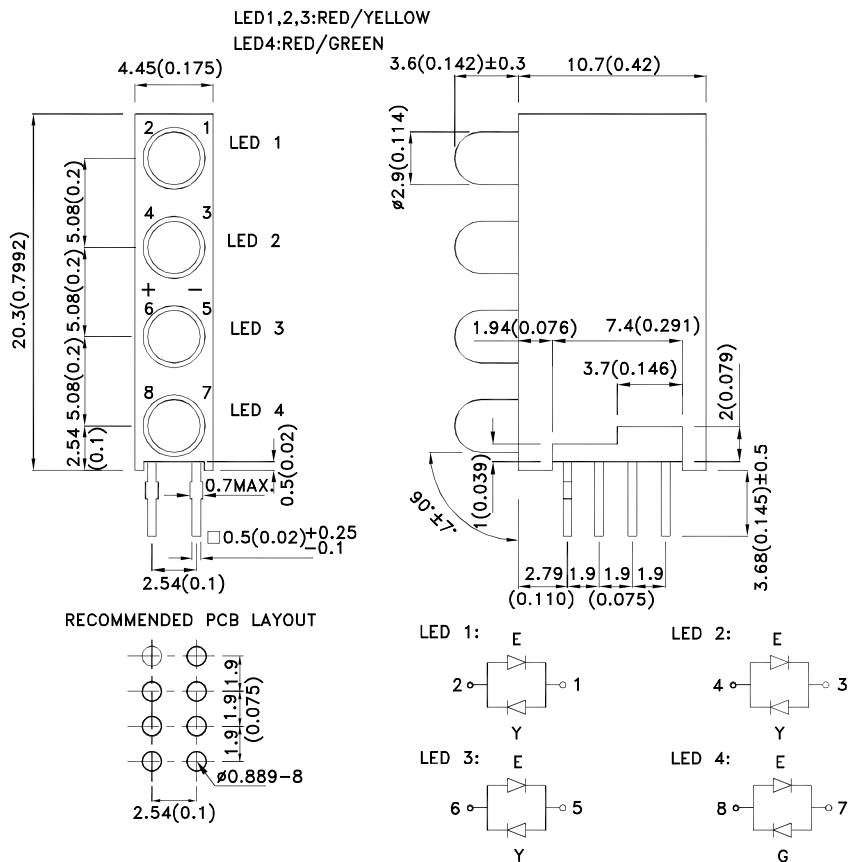
Description

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

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

The Green source color devices are made with Gallium Phosphide Green 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. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-937SB/3EY1EGW	High Efficiency Red (GaAsP/GaP)	White Diffused	6	14	60°
			*4	*10	
	Yellow (GaAsP/GaP)		4	8	
			*4	*8	
	High Efficiency Red (GaAsP/GaP)	White Diffused	6	14	60°
			*4	*10	
	Green (GaP)		6	14	
			*6	*14	

Notes:

1. θ1/2 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°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Yellow Green	627 590 565		nm	If=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Yellow Green	617 588 568		nm	If=20mA
Δλ1/2	High Efficiency Red	High Efficiency Red Yellow Green	45 35 30		nm	If=20mA
C	Capacitance	High Efficiency Red Yellow Green	15 20 15		pF	Vf=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Yellow Green	2 2.1 2.2	2.5 2.5 2.5	V	If=20mA

Notes:

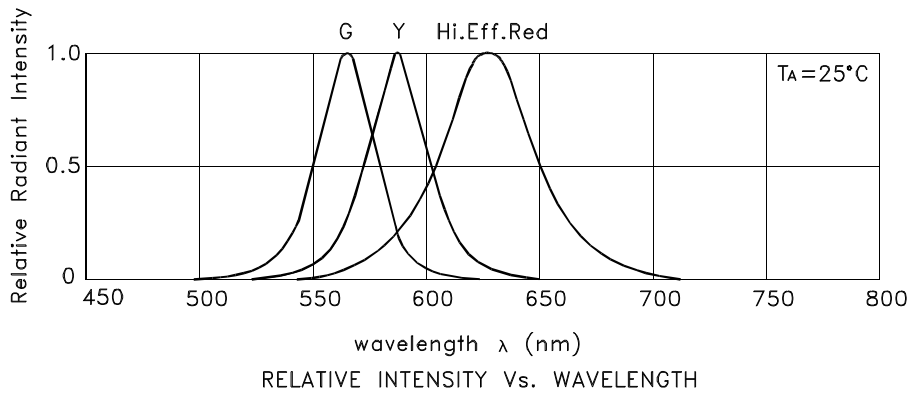
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

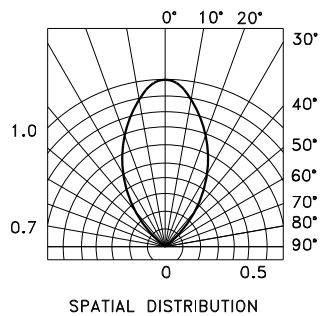
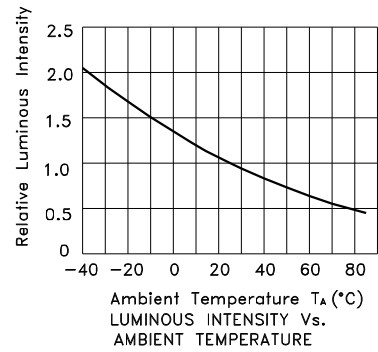
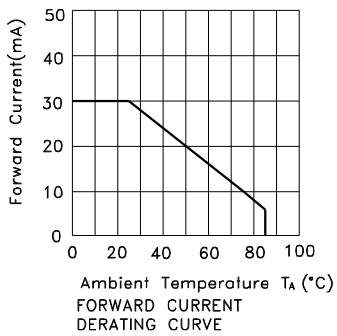
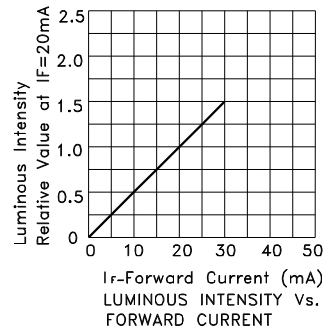
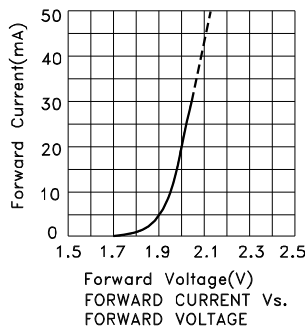
Parameter	High Efficiency Red	Yellow	Green	Units
Power dissipation	75	75	62.5	mW
DC Forward Current	30	30	25	mA
Peak Forward Current [1]	160	140	140	mA
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

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

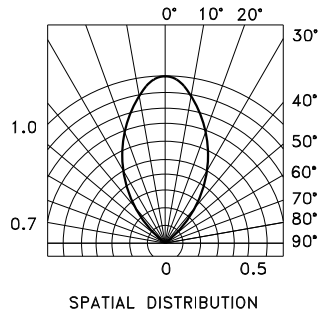
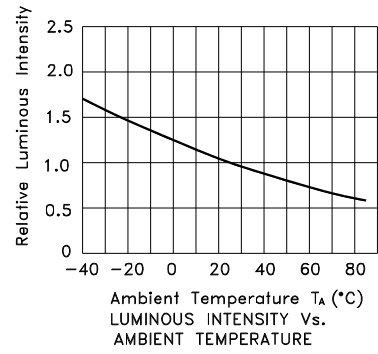
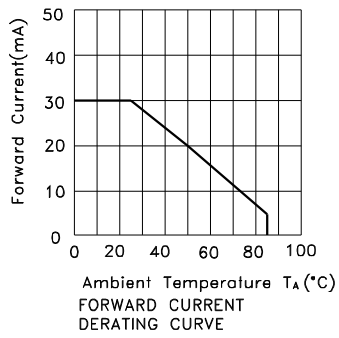
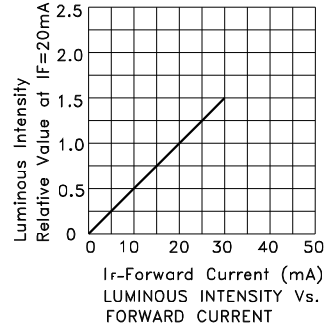
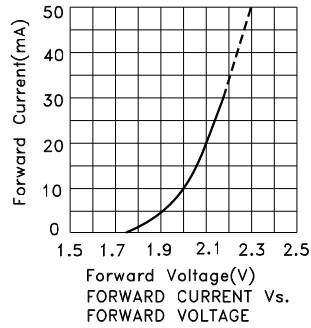


L-937SB/3EY1EGW High Efficiency Red

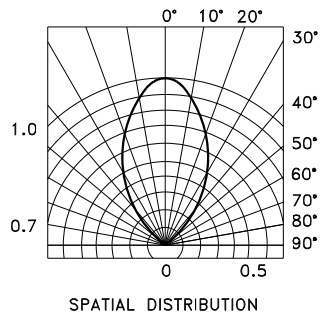
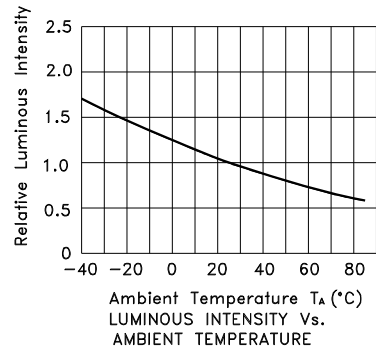
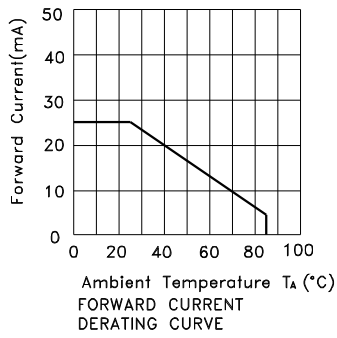
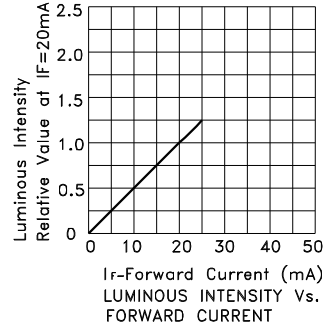
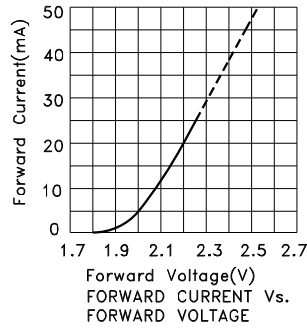


Kingbright

Yellow

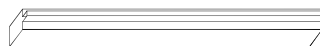
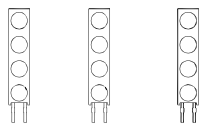


Green

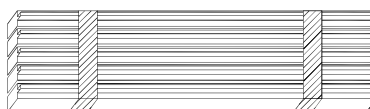


PACKING & LABEL SPECIFICATIONS

L-937SB/3EY1EGW



120PCS / IC TUBE




600PCS / 5PCS IC TUBE



OUTSIDE LABEL

8.4K / 6# BOX

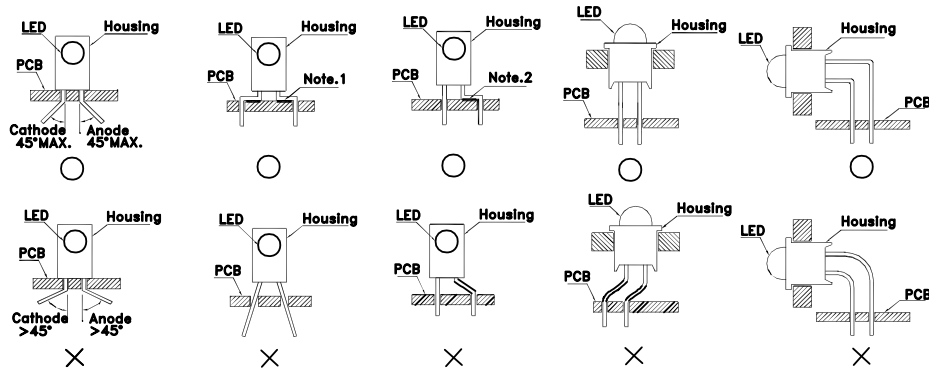
Kingbright	
P/NO: L-937SBxxx	
QTY: 600 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 <small>XXXXXXXXXXXXXXXXXXXXXXXXXXXX</small>	
RoHS Compliant	

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PRECAUTIONS

- 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.

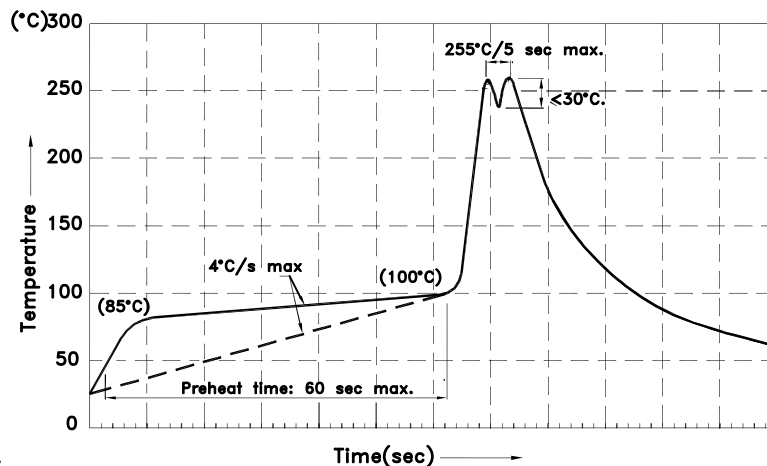


”○” Correct mounting method ”×” Incorrect mounting method

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



- The tip of the soldering iron should never touch the lens epoxy.
- Through-hole LEDs are incompatible with reflow soldering.
- 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.
- Recommended Wave Soldering Profiles:



Notes:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
- Do not apply stress to the epoxy resin while the temperature is above 85°C.
- Fixtures should not incur stress on the component when mounting and during soldering process.
- SAC 305 solder alloy is recommended.
- No more than one wave soldering pass.

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