T-1 (3mm) BI-LEVEL LED INDICATOR

Part Number: L-934MD/1LI1LGD

High Efficiency Red Green

Features

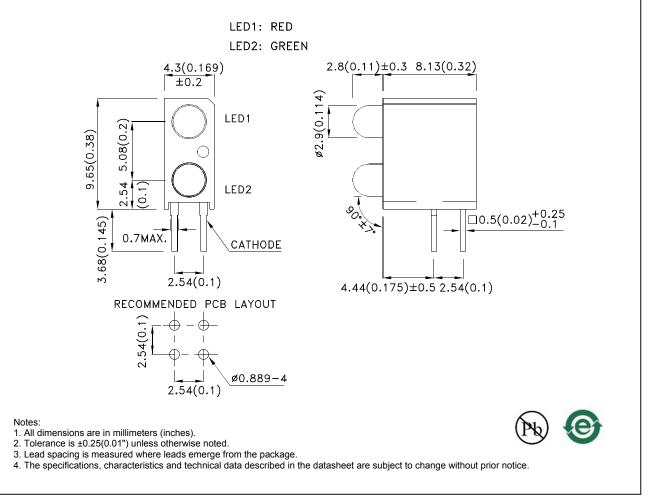
- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- Low current IF=2mA operating.
- RoHS compliant.

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



SPEC NO: DSAE2409 APPROVED: WYNEC REV NO: V.6A CHECKED: Allen Liu DATE: NOV/12/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1102013647

Selection Guide

Part No.	Dice	Lens Type		lv (mcd) [2] @ 2mA	
			Min.	Тур.	201/2
L-934MD/1LI1LGD	High Efficiency Red (GaAsP/GaP)	Ded Diffused	0.35	1	40°
		Red Diffused	*0.2	*0.6	
	Green (GaP)	One on Diffused	1	2	40°
		Green Diffused	*1	*2	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
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	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green	627 565		nm	IF=2mA	
λD [1]	Dominant Wavelength	High Efficiency Red Green	617 568		nm	IF=2mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I⊧=2mA	
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	High Efficiency Red Green	1.7 1.9	2.5 2.5	V	IF=2mA	
lr	Reverse Current	High Efficiency Red Green		10 10	uA	VR = 5V	

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

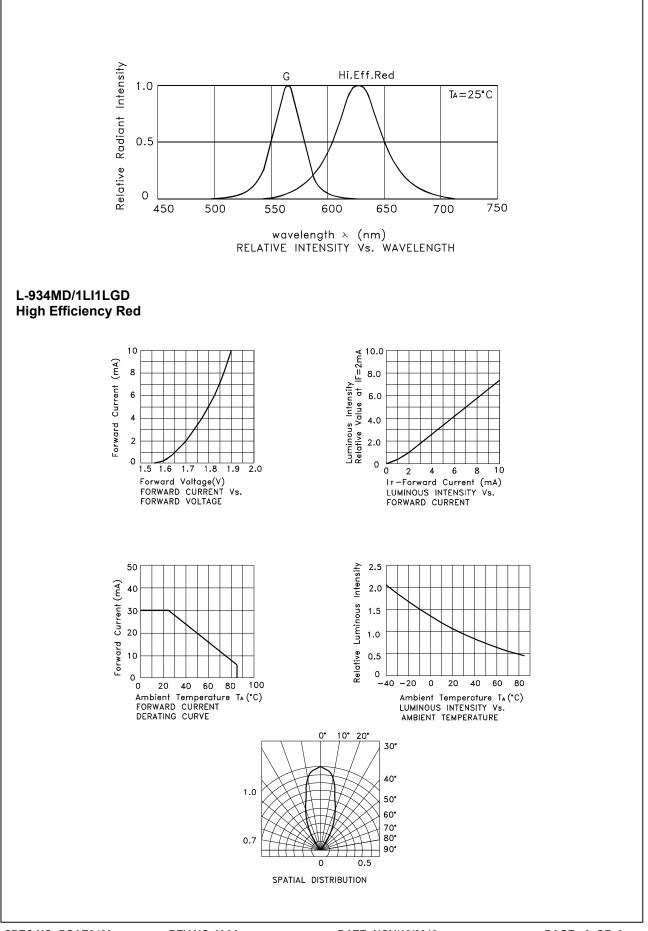
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

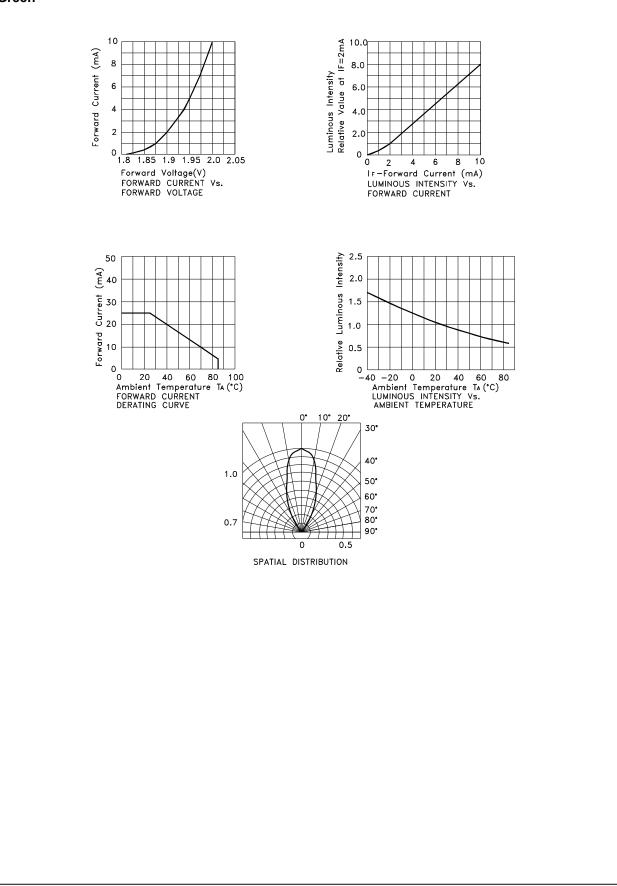
Parameter	High Efficiency Red Green		Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage		V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C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

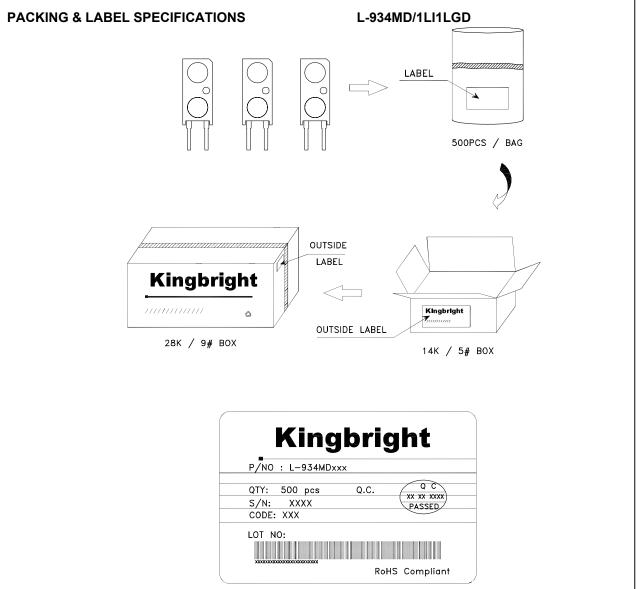
Notes

1.1/10 Duty Cycle, 0.1ms Pulse Width.
2.2mm below package base.
3.5mm below package base.







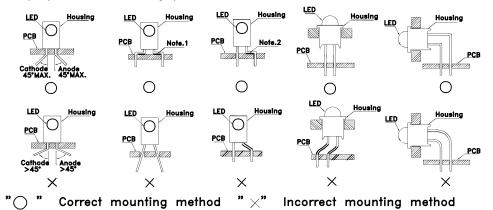


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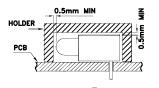
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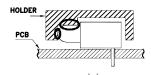
PRECAUTIONS

1. 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.

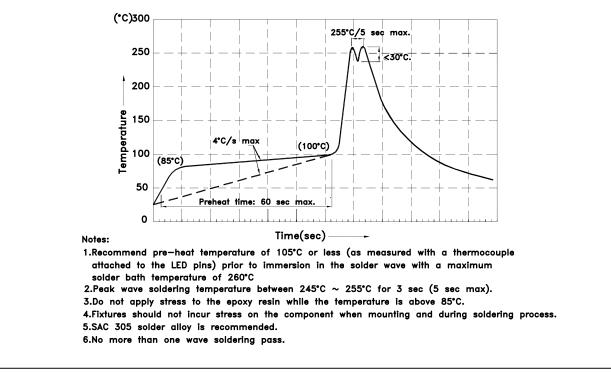


2. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.





- 3. The tip of the soldering iron should never touch the lens epoxy.
- 4. Through-hole LEDs are incompatible with reflow soldering.
- 5. 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.
- 6. Recommended Wave Soldering Profiles:



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