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

Part Number: L-7104MD/1LG1LYD

Green Yellow

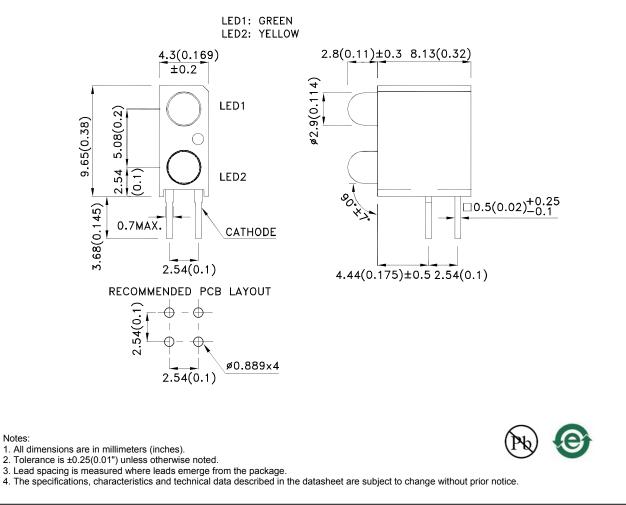
Features

- 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.

Descriptions

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

Package Dimensions



SPEC NO: DSAH4244 APPROVED: WYNEC REV NO: V.3B CHECKED: Allen Liu DATE: MAR/04/2015 DRAWN: L.Q.Xie PAGE: 1 OF 6 ERP: 1102013362

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1] 201/2
				Тур.	
L-7104MD/1LG1LYD	Green (GaP)	Green Diffused	1	2	40°
	Yellow (GaAsP/GaP)	Yellow Diffused	0.7	1.5	40°

Notes:

1. θ 1/2 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	Green Yellow	565 590		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Green Yellow	568 588		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Green Yellow	30 35		nm	I⊧=2mA
С	Capacitance	Green Yellow	15 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green Yellow	1.9 1.85	2.5 2.5	V	I⊧=2mA
lr	Reverse Current	Green Yellow		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.

4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

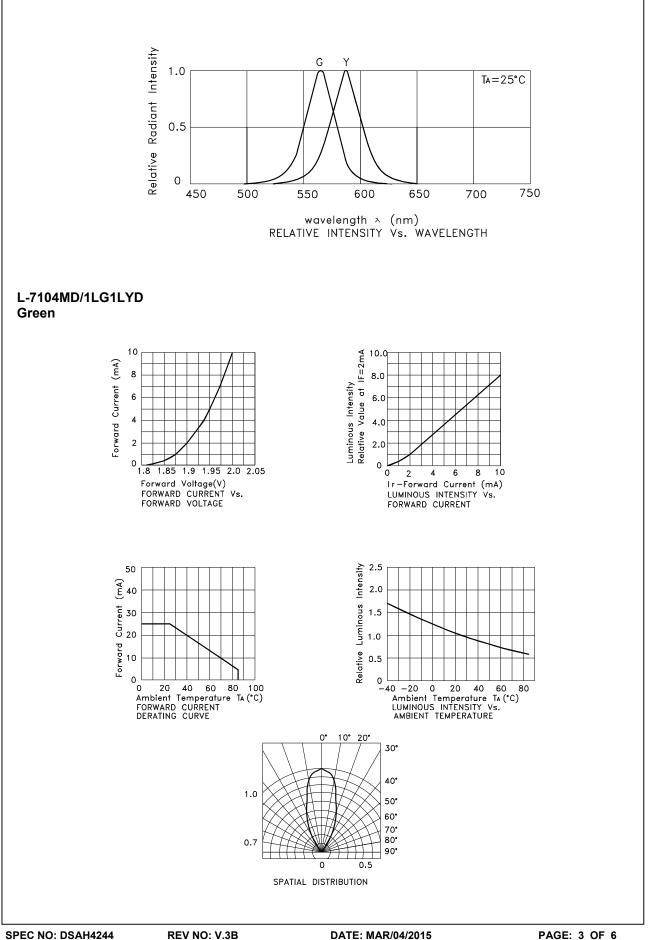
Parameter	Green	Yellow	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	140	mA		
Reverse Voltage	Į	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

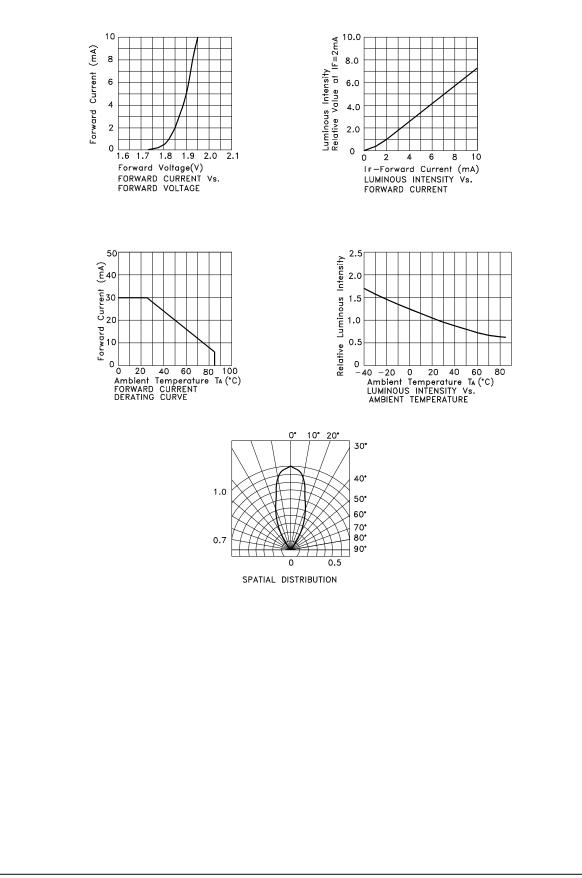
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

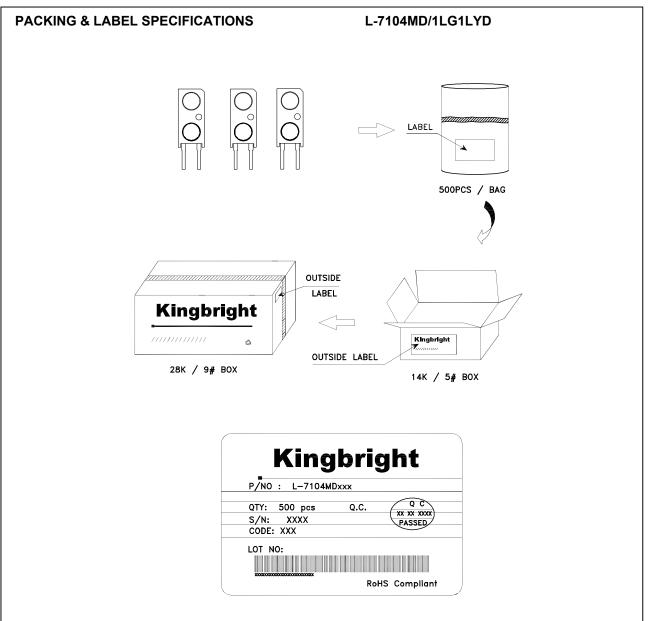
2. 2mm below package base.

3. 5mm below package base.



Yellow





Terms and conditions for the usage of this document

1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.

- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application_notes

PRECAUTIONS

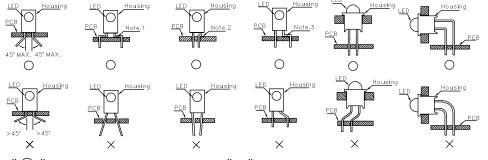
1. Storage conditions:

a.Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

b.LEDs should be stored with temperature \leq 30°C and relative humidity <60%.

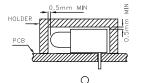
c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at $85 \sim 100^{\circ}$ C.

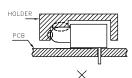
 The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead—forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.



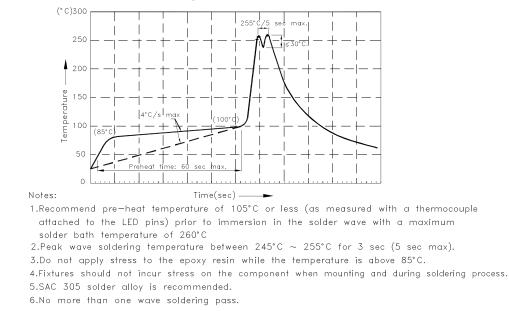
"○" Correct mounting method "X" Incorrect mounting method Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

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





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



REV NO: V.3B CHECKED: Allen Liu DATE: MAR/04/2015 DRAWN: L.Q.Xie

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Panel Mount Indicators category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below :

607-1312-310F 607-3232-140F 6091M1-24V 6091M5-24V 6091M7-24V 821-0331-503 FL2870C8R FL2950WL7B FL589WL8R Q6P3BXXB12E H8630FBBA3 MPC5ADW6.0 DX1091GN NL177WL3G NL276C3G NL2950BWL3G NL2950CWL2R NL589WL2R NL67C3G NL67C3R 2191L1-12V PB22SIOL0RG PB22SPPM41R PB22SPPM61R LE177C5B LH1048BSWL3702 LH1048BWL3702 LH382A LHM62B SSI-LXH387USBD-150 SSI-LXH9ZIC40587 SSP-LXS110818BA FL2950BWL7R FL2950WL7R FL2951WL8G FL2951WL8R FL589C7R FL67C7R FL67C7R FL67WL8G 2191QU7-24V 2191U1-12V 2191U5-12V 2191U5-6V 2191U7-12V 249-4167-3734-504F Q6P5BXXG02E 3990A7 5110F3-12V MPC5BCW18.0 556-1237-801F