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

Part Number: WP1503EB/2GD Green

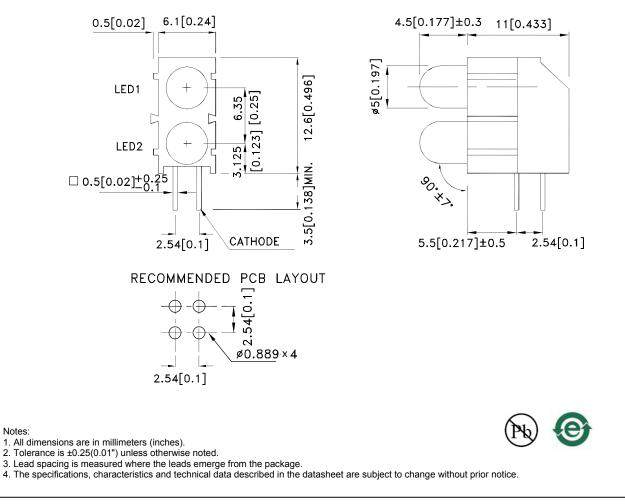
Features

- Pre-trimmed leads for pc board mounting.
- Stackable units.
- Colors can be mixed in a single housing.
- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

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

Package Dimensions



REV NO: V.7B CHECKED: Allen Liu DATE: MAR/18/2015 DRAWN: P.Cheng PAGE: 1 OF 5 ERP: 1102000676

Selection Guide

Ocicotion Oulde					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP1503EB/2GD	Green (GaP)	Green Diffused	15	30	60°

Notes:

01/2 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	565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.2	2.5	V	I⊧=20mA
lr	Reverse Current	Green		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.

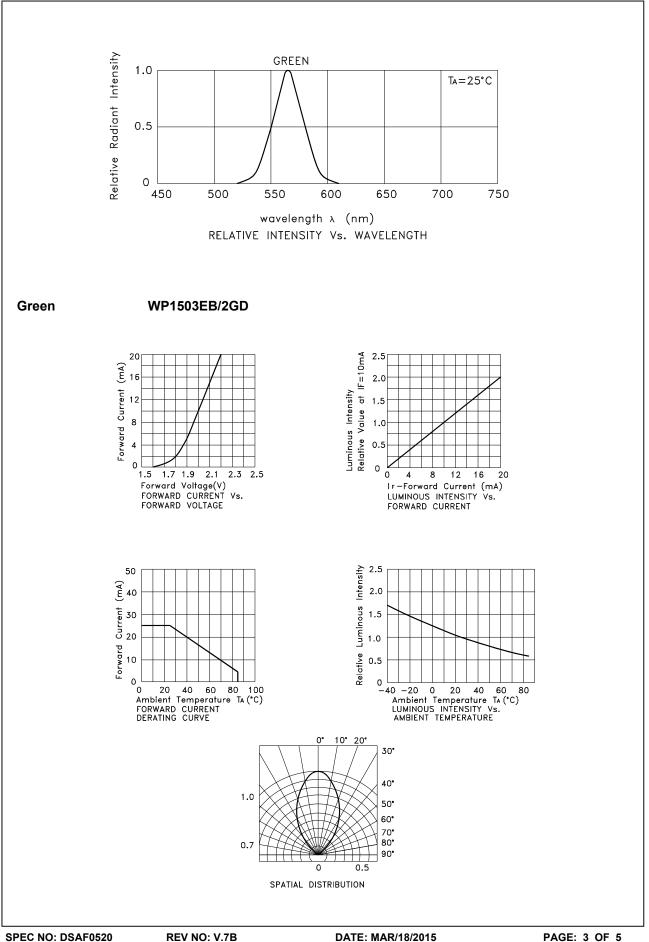
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

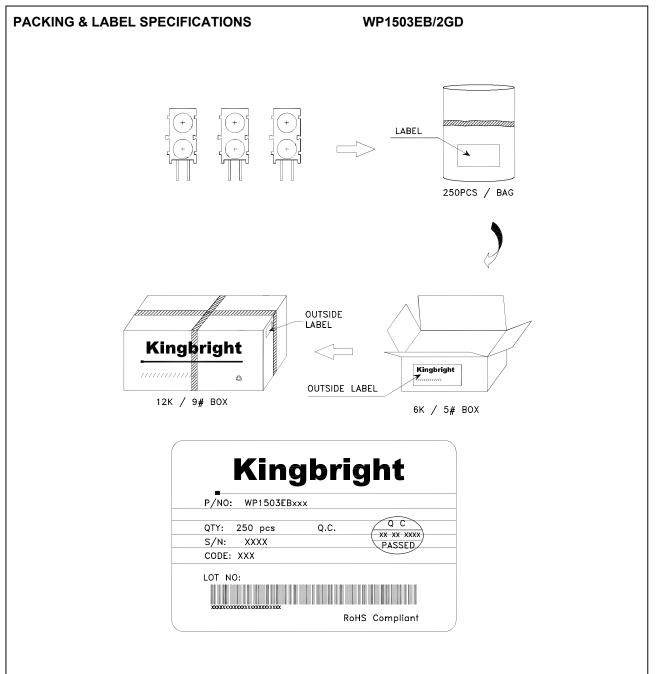
Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units		
Power dissipation	62.5	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	140	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			

Notes:

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





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.KingbrightUSA.com/ApplicationNotes

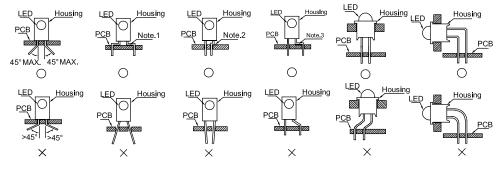
DATE: MAR/18/2015 DRAWN: P.Cheng

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 ~ 100°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.

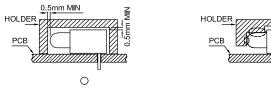


" () " Correct mounting method " imes " Incorrect mounting method

Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

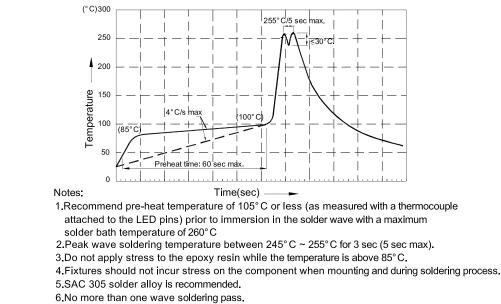
X

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:



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Circuit Board Indicators category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below :

 568-0701-841F
 LTL-4221NH129
 LTL-42DGNMHDP1
 HLMP1521101
 HLMP1523802F
 HLMP1700101F
 HLMP1700104F
 BHA-1564-G

 SMF-HM1530YD-305
 SSF-LXH409SYSUGW
 AM2520EHSGD
 HLMP1301104F
 HLMP1385101F
 HLMP1421101
 HLMP1503103F

 HLMP1503104F
 HLMP1700102F
 HLMP1700106F
 HLMP1700107F
 HLMP1790101F
 HLMP1790103F
 LTL-4211NHBP
 5390H3
 5390H5

 551-2802F
 552-0794-810F
 553-0222-812F
 HT3-BC-T
 564-0700-831F
 WP59BLGEW
 103-3101-1231-403
 5502407811F
 550-3007-810F

 551-3307MF
 552080-1
 573-2399-100F
 592-2020-302F
 5932-927-2701-3F
 SMF-HM1530SRD-509
 SSF-LXH100MID
 SSF

 LXH2103SRSRDRP
 SSF-LXH555USBW
 WP937SB/4YGW
 WP937EB2EGW
 HT3-BLU-T
 551-0312-802F
 553-0110-802F
 6202T3-5VLC

 LTL-307G08A-D
 CMD57164
 CMD57164
 CMD57164
 CMD57164
 CMD57164
 CMD57164