T-1 3/4 (5mm) SOLID STATE LAMP

Part Number: L-7113PBC-A Blue ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES **Features** Descriptions • Low power consumption. • The Blue source color devices are made with InGaN • Popular T-1 3/4 diameter package. on SiC Light Emitting Diode. • General purpose leads. • Electrostatic discharge and power surge could damage Reliable and rugged. the LEDs. • Long life - solid state reliability. • It is recommended to use a wrist band or anti-• Available on tape and reel. electrostatic glove when handling the LEDs. • RoHS compliant. • All devices, equipments and machineries must be electrically grounded. **Package Dimensions** 8.6[0.339] 27[1.063]MIN. 1[0.039] ø5.9[0.232] 1.5[0.059]±1

 Note:
 1.0MAX, - O
 0.0000 + 0.00000 + 0.0000 + 0.0000 + 0.0000 + 0.0000 + 0.0000 + 0.00

SPEC NO: DSAE4834 APPROVED: WYNEC

REV NO: V.14B CHECKED: Allen Liu DATE: MAR/26/2014 DRAWN: Y.Liu

PAGE: 1 OF 6 ERP: 1101013155

Selection Guide

Part No.	Dice	Lens Type	lv (ma @ 20	/ - -	Viewing Angle [1]
			Min.	Тур.	201/2
L-7113PBC-A	Blue (InGaN)	Water Clear	1300	2000	16°

Notes:

1. 61/2 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	Blue	468		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	l⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	I⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue	3.2	4	V	I⊧=20mA
lr	Reverse Current	Blue		10	uA	Vr = 5V

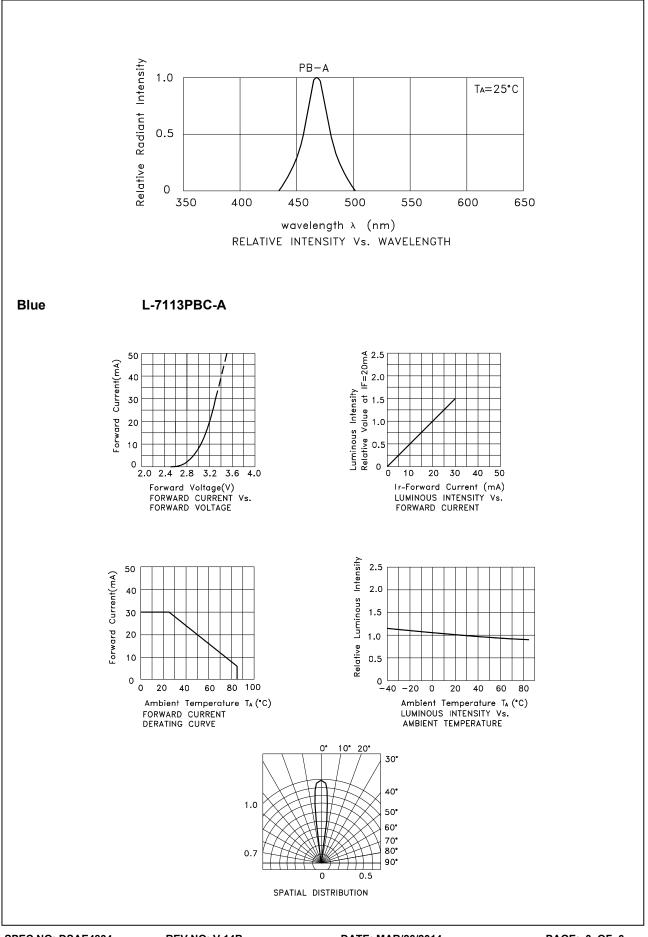
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

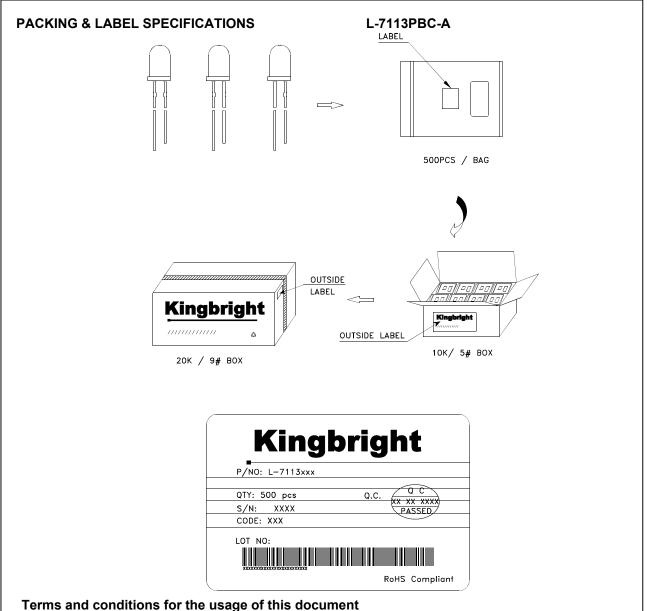
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	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.

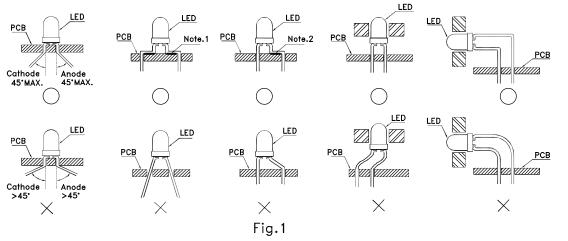




- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer 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

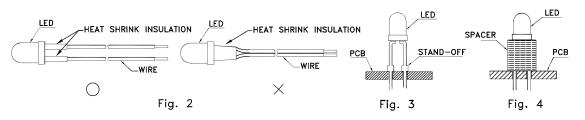
PRECAUTIONS

1. 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. (Fig. 1)

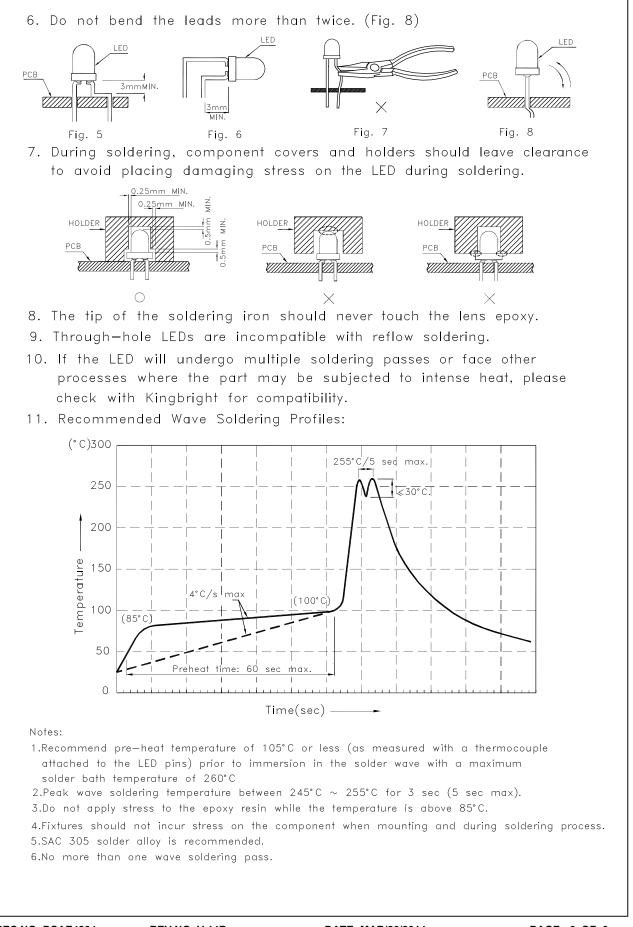


" Correct mounting method "imes" Incorrect mounting method

- 2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 3mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - Through Hole category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below :

LTL-10254W LTL-1214A LTL-1BEDJ LTL-2231AT LTL-3251A LTL-4262N LTL-5234 LTL87HTBK LTW-87HD4B 7383/V7C3-BSTA-L/PR3/MS HLMP-AG64-X10ZZ HLMP-EG1A-Z10DV HLMP-EL3B-WXKDD HLMP-HB74-UVBDD HLMP-HG65-VY0DD HLMP-HM74-34CDD HLMP-HM75-34CDD 1L0532V23G0TD001 NSPW500CS C4SMA-BGF-CQ34Q3C2 L53GC13 264-7SURTS530-A3 L-C150JRCT S4SMS-BJF-CQ42QGF2 S4SMS-GJF-CW12QMF2 LD CQDP-1U3U-W5-1-K L0566UHR3-70G-A3 SLA560WBD2PT3 LP379PPG1C0G0300001 SLR-322MCT32 SLR-342DUT32 SLR-342MC3F SLR343BC7TT32 SLR343BCTT32 SLX-LX3044GD SLX-LX3044ID SLX-LX3044YD 1.90690.3330000 SSL-LX20483ID SSL-LX3034YD SSL-LX5093LGT-11 SSL-LX5093PGC SSL-LX5093SRC/F SSL-LX5093SYT SSL-LX509E3SIT SSL-LX509FT3ID SSL-LX50FT3GD SSS-LX4673ID-410B 1L0532Y24I0TD001 264-7SYGD/S530-E2