

2.1x0.7mm RIGHT ANGLE SMD CHIP LED **LAMP**

Blue



Part Number: KPJA-2107QBC-D

Features

- 2.1x0.7mm right angle SMT LED, 1.3mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

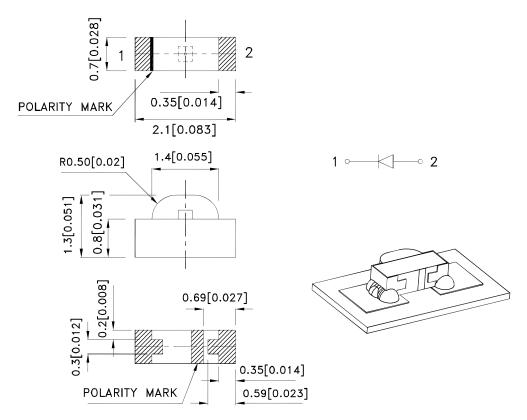
The Blue source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAG3583 **REV NO: V.6B** DATE: APR/13/2013 PAGE: 1 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu ERP: 1203005218

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPJA-2107QBC-D	Blue (InGaN)	Water Clear	40	80	120°

Notes:

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Luminous intensity/ luminous Flux: +/-15%.
- 3. 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	460		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA
lr	Reverse Current	Blue		50	uA	V _R =5V

Notes:

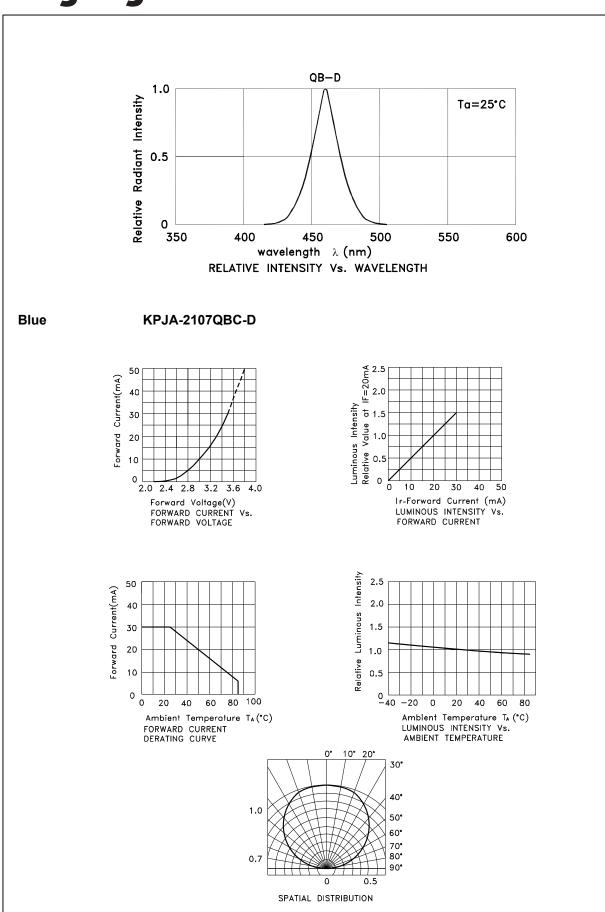
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

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

SPEC NO: DSAG3583 **REV NO: V.6B** DATE: APR/13/2013 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.Liu ERP: 1203005218

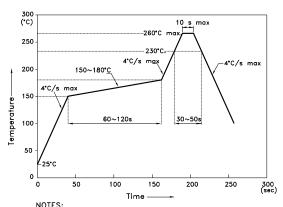


SPEC NO: DSAG3583 REV NO: V.6B DATE: APR/13/2013 PAGE: 3 OF 5
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu ERP: 1203005218

KPJA-2107QBC-D

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

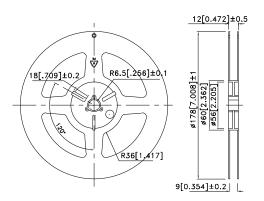
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

 3.Number of reflow process shall be 2 times or less.

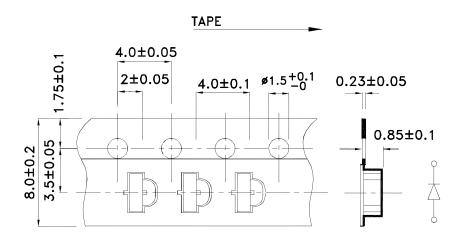
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.5 1.1 1.5

Reel Dimension



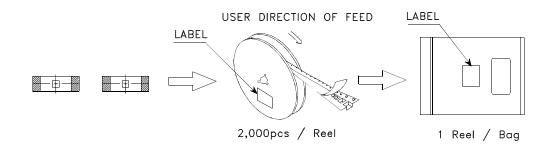
Tape Dimensions (Units : mm)

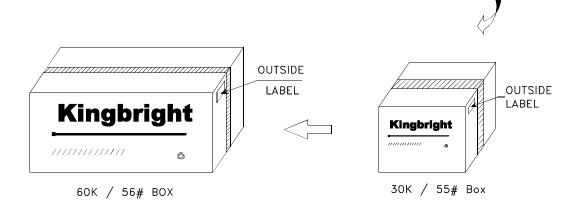


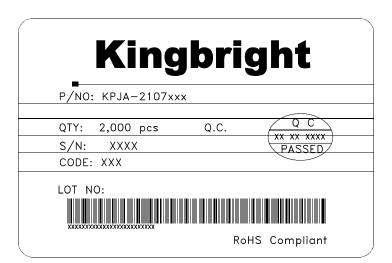
SPEC NO: DSAG3583 APPROVED: WYNEC REV NO: V.6B CHECKED: Allen Liu DATE: APR/13/2013 DRAWN: Y.Liu PAGE: 4 OF 5 ERP: 1203005218

.....

PACKING & LABEL SPECIFICATIONS KPJA-2107QBC-D







Detailed application notes are listed on our website. http://www.kingbright.com/application notes

SPEC NO: DSAG3583 APPROVED: WYNEC REV NO: V.6B CHECKED: Allen Liu DATE: APR/13/2013 DRAWN: Y.Liu PAGE: 5 OF 5 ERP: 1203005218