

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPTD-1608QBC-D Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Features

- 1.6mmX0.8mm SMT LED, 0.95mm 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.
- RoHS compliant.

Description

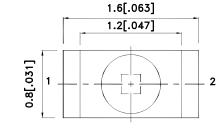
The Blue source color devices are made with InGaN Light Emitting Diode.

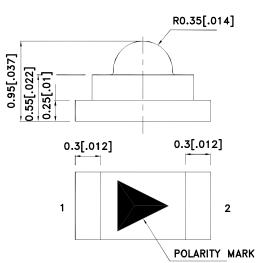
Static electricity and surge damage the LEDS.

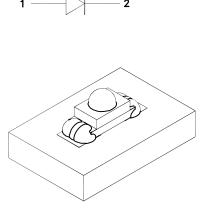
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions







SPEC NO: DSAJ7491

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- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.6 DATE: NOV/03/2010 PAGE: 1 OF 5 CHECKED: Allen Liu DRAWN: D.M.Su ERP: 1203009945

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPTD-1608QBC-D	Blue (InGaN)	Water Clear	100	200	40°

- 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	470		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

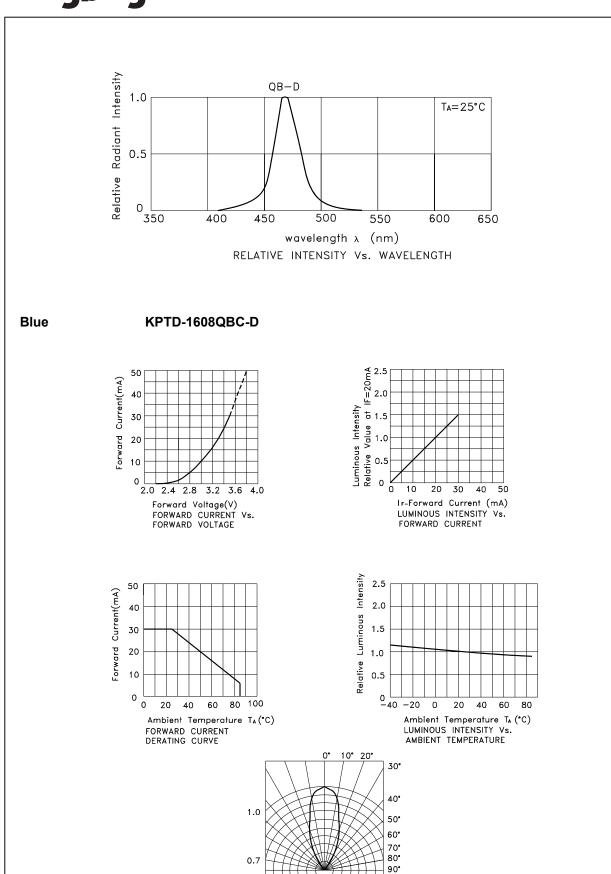
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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Parameter	Blue				
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				

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

SPEC NO: DSAJ7491 **REV NO: V.6** DATE: NOV/03/2010 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su ERP: 1203009945



 SPEC NO: DSAJ7491
 REV NO: V.6
 DATE: NOV/03/2010
 PAGE: 3 OF 5

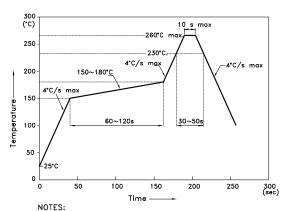
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SPATIAL DISTRIBUTION

KPTD-1608QBC-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.



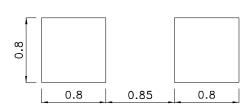
- NOTES:

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

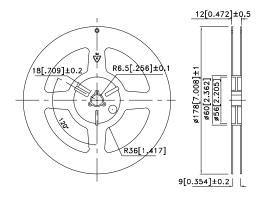
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

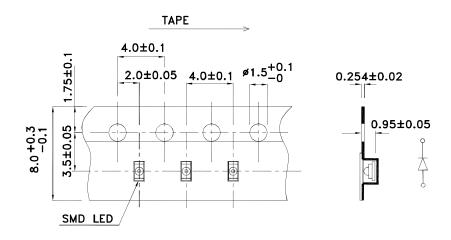
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



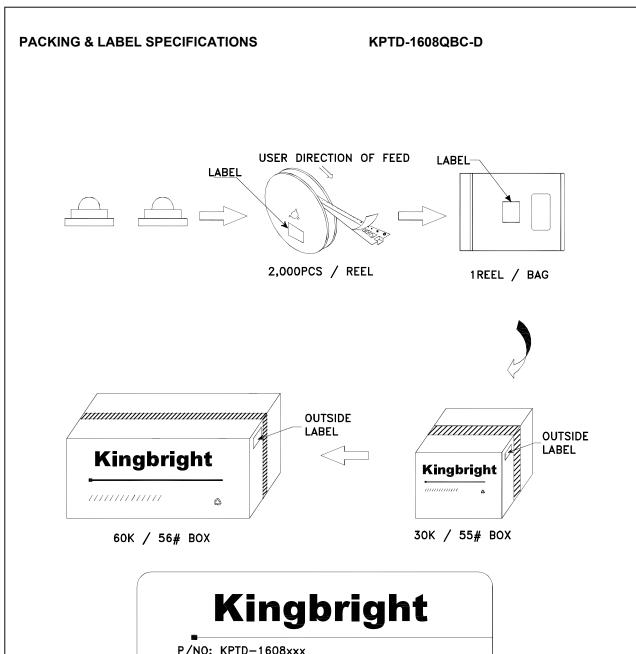
Reel Dimension

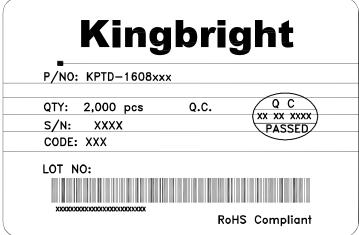


Tape Dimensions (Units: mm)



SPEC NO: DSAJ7491 **REV NO: V.6 DATE: NOV/03/2010** PAGE: 4 OF 5 CHECKED: Allen Liu APPROVED: WYNEC ERP: 1203009945 DRAWN: D.M.Su





SPEC NO: DSAJ7491 APPROVED: WYNEC REV NO: V.6 CHECKED: Allen Liu DATE: NOV/03/2010 DRAWN: D.M.Su PAGE: 5 OF 5 ERP: 1203009945