

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMT LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Blue

Part Number: KPG-1608QBC-D

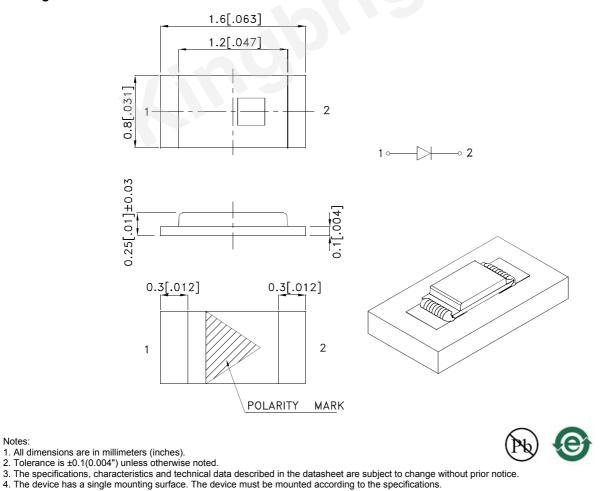
Descriptions

- The Blue source color devices are made with InGaN Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Applications

1.Mobile phone Keypad indicator and backlight. 2.Flat backlight for LCD, switch and symbol. 3.Toys.

Package Dimensions



SPEC NO: DSAI2684 **APPROVED: WYNEC**

Notes:

REV NO: V.7B CHECKED: Allen Liu DATE: MAR/30/2015 DRAWN: L.Q.Xie

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Selection Guide

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Part No.	Dice	lv (mcd) [2] @ 20mA		· /···	
			Min.	Тур.	201/2
KPG-1608QBC-D	Blue (InGaN)	Water Clear	40	100	120°

Notes:

1. θ 1/2 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	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	I⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue	3.3	4	V	I⊧=20mA
IR	Reverse Current	Blue		50	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

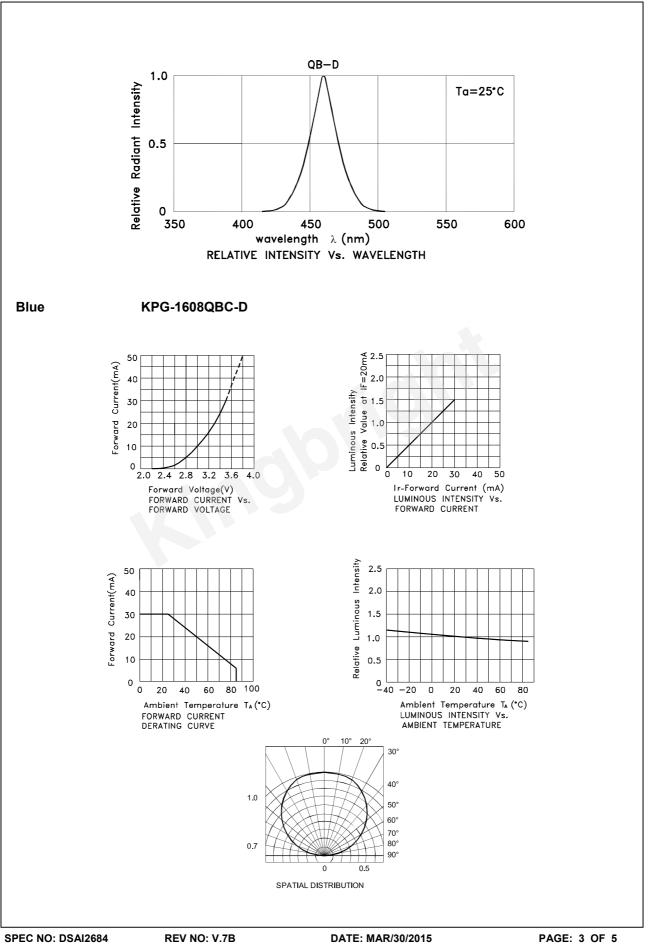
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold (HBM)	250	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

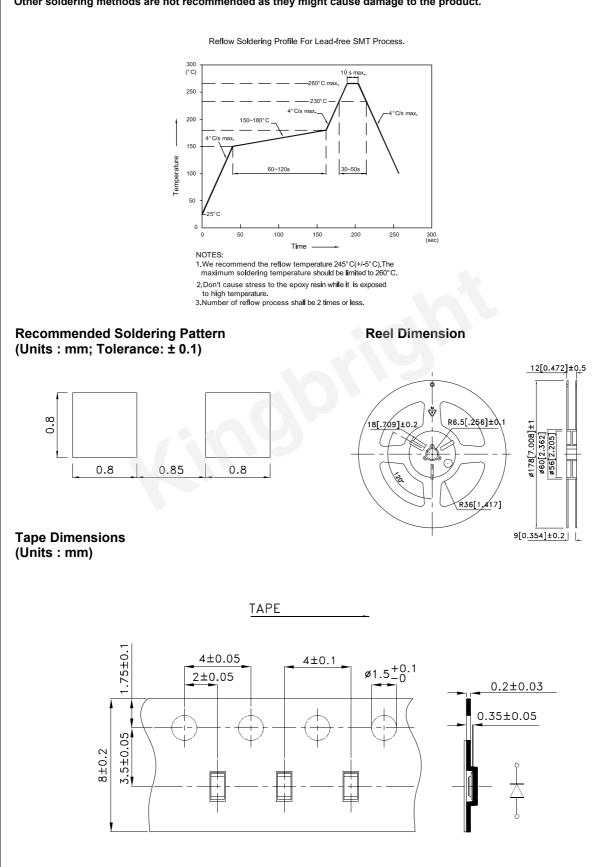
Note:

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

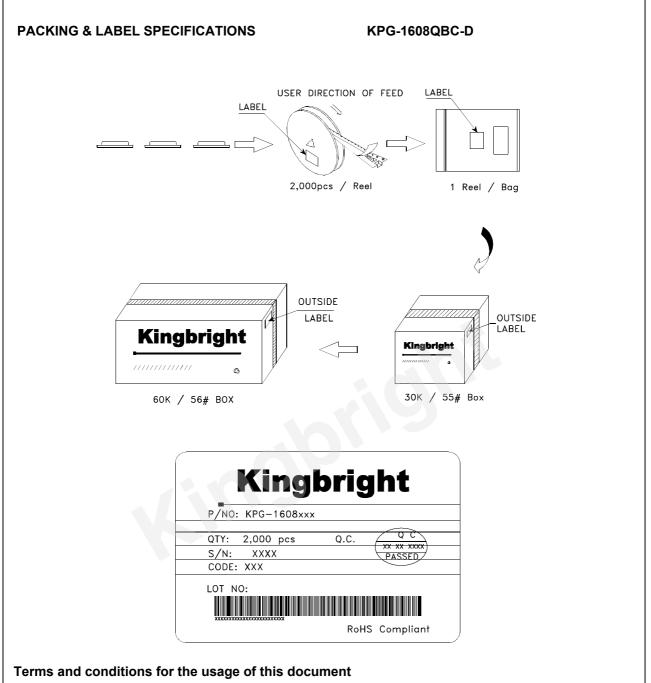


KPG-1608QBC-D

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.



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