### 1.6X0.8mm SMD CHIP LED LAMP

Part Number: KP-1608QBC-D Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Features**

- 1.6mmX0.8mm SMT LED, 1.1mm 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

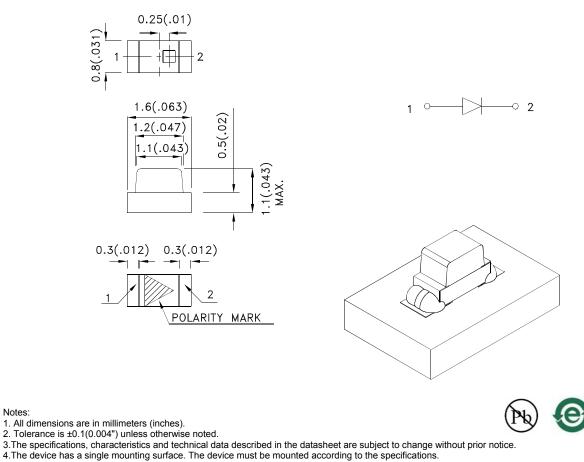
The Blue source color devices are made with InGaN Light Emitting Diode.

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: DSAA8751 **APPROVED: WYNEC** 

Notes:

REV NO: V.17A **CHECKED:** Allen Liu DATE: JAN/03/2011 DRAWN: Y.H.Wu

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### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
KP-1608QBC-D	Blue (InGaN)	Water Clear	40	100	120°		

Notes:

θ1/2 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	*460		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	470	*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

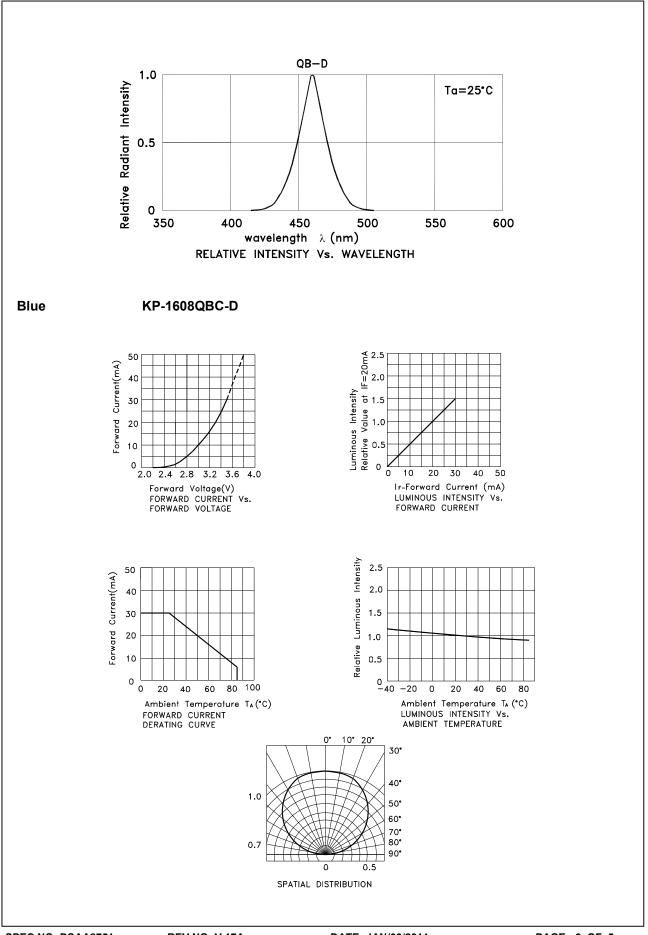
Notes: 1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. \*Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### 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			

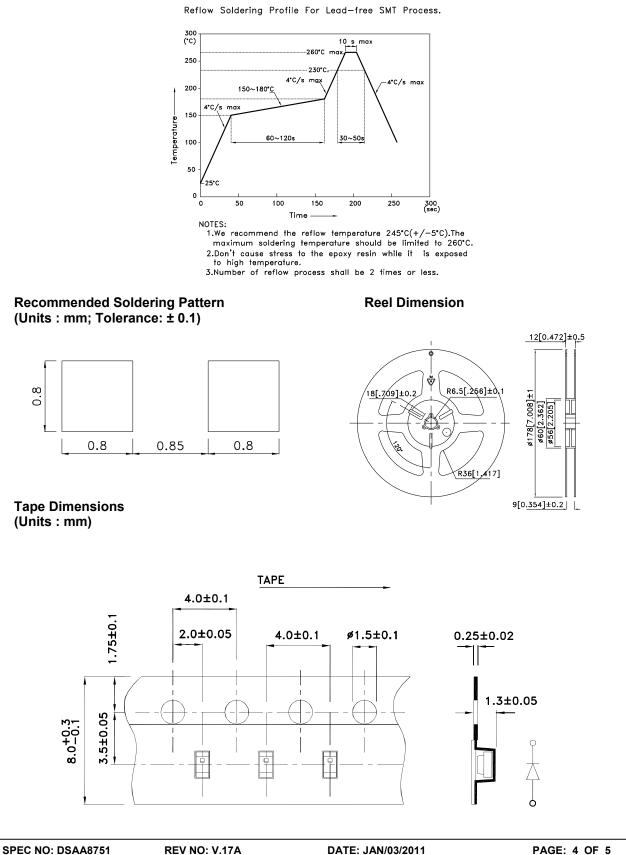
Note:

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



### KP-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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