5mm ROUND LED LAMP

Part Number: L-9294QBC-D Blue

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- High luminous emission.
- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- RoHS compliant.

Description

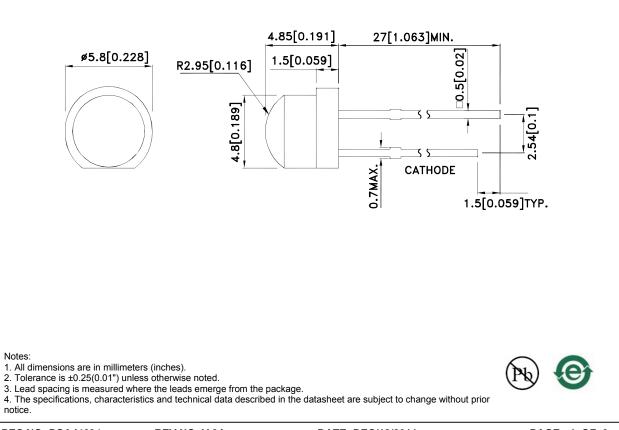
The Blue source color devices are made with InGaN Light Emitting Diode.

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



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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
L-9294QBC-D	Blue (InGaN)	Water Clear	200	500	60°			

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

Parameter	Device	Тур.		Max.	Units	Test Conditions
Peak Wavelength	Blue	468	468 *460		nm	I⊧=20mA
Dominant Wavelength	Blue	470	*465	nm		I⊧=20mA
Spectral Line Half-width	Blue	25			nm	I⊧=20mA
Capacitance	Blue	100			pF	VF=0V;f=1MHz
Forward Voltage	Blue	3.3		4	V	I⊧=20mA
Reverse Current	Blue			50	uA	VR = 5V
	Peak Wavelength Dominant Wavelength Spectral Line Half-width Capacitance Forward Voltage	Peak WavelengthBlueDominant WavelengthBlueSpectral Line Half-widthBlueCapacitanceBlueForward VoltageBlue	Peak WavelengthBlue468Dominant WavelengthBlue470Spectral Line Half-widthBlue25CapacitanceBlue100Forward VoltageBlue3.3	Peak WavelengthBlue468*460Dominant WavelengthBlue470*465Spectral Line Half-widthBlue25CapacitanceBlue100Forward VoltageBlue3.3	Peak Wavelength Blue 468 *460 Dominant Wavelength Blue 470 *465 Spectral Line Half-width Blue 25 Capacitance Blue 100 Forward Voltage Blue 3.3 4	Peak Wavelength Blue 468 *460 nm Dominant Wavelength Blue 470 *465 nm Spectral Line Half-width Blue 25 nm Capacitance Blue 100 pF Forward Voltage Blue 3.3 4

Notes:

1.Wavelength: +/-1nm.

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

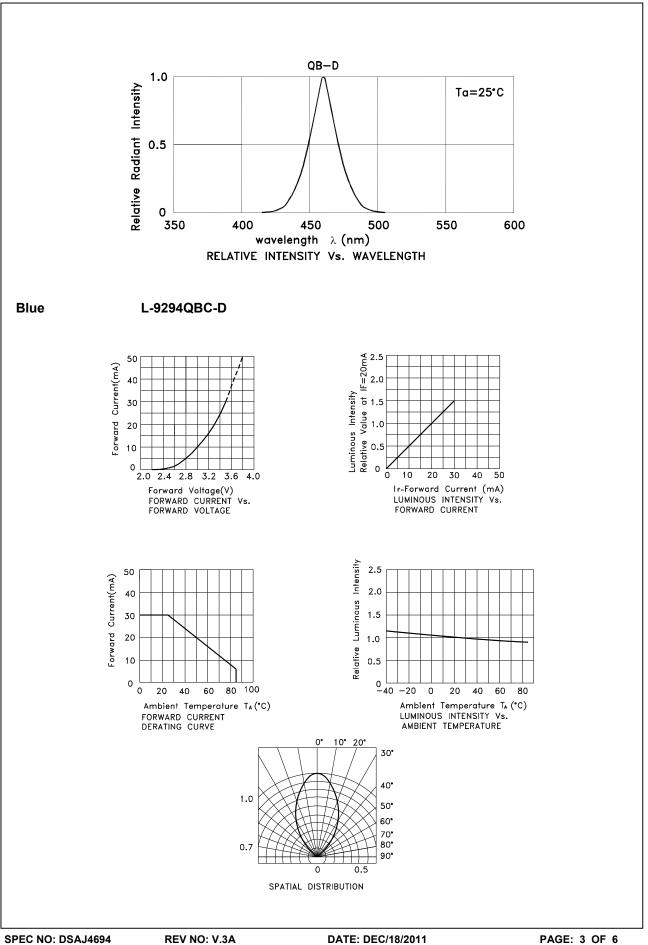
Absolute Maximum Ratings at TA=25°C

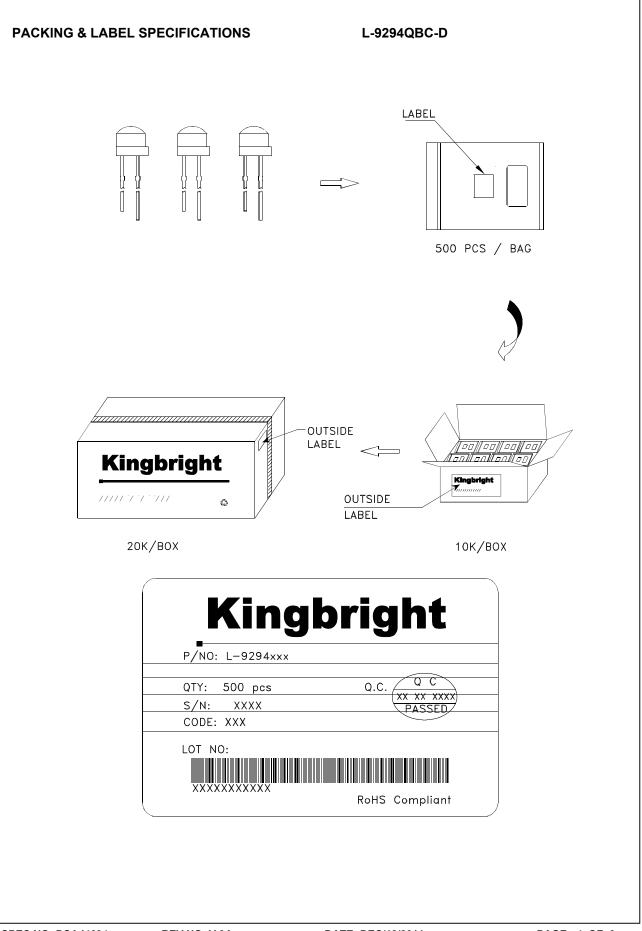
Blue	Units			
120	mW			
30	mA			
150	mA			
5	V			
-40°C To +85°C				
260°C For 3 Seconds				
260°C For 5 Seconds				
	120 30 150 5 -40°C To +85°C 260°C For 3 Seconds			

Notes:

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

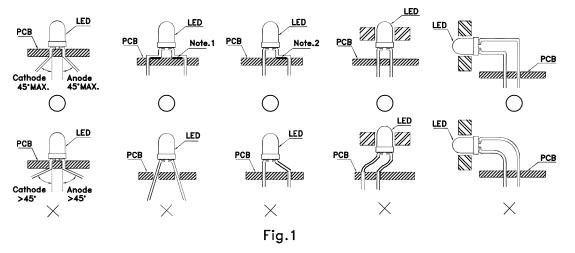
2. 2mm below package base.
 3. 5mm below package base.



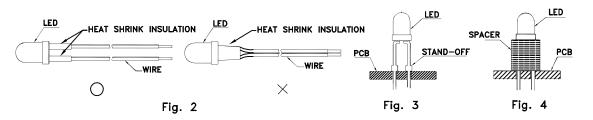


PRECAUTIONS

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)



- \supset " 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 2mm 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)

