

### 5mm ROUND LED LAMP

PRELIMINARY SPEC



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

Part Number: WP9294QBC/G

### **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.

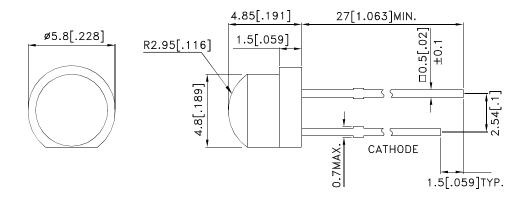
Blue

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**



- All dimensions are in millimeters (inches).
   Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.





SPEC NO: DSAJ8790 **REV NO: V.1 DATE: OCT/13/2009** PAGE: 1 OF 4 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Q.Q.Zhu ERP: 1101026814

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## **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP9294QBC/G	Blue (InGaN)	WATER CLEAR	380	900	60°

- 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.	Тур. Мах.		Test Conditions	
λpeak	Peak Wavelength	Blue	461		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		10	uA	V <sub>R</sub> = 5V	

## Notes:

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

## Absolute Maximum Ratings at TA=25°C

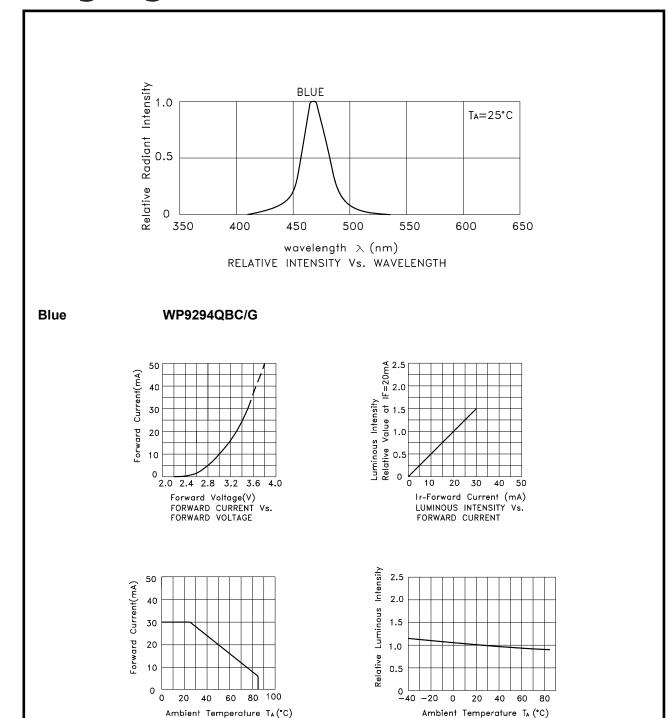
Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

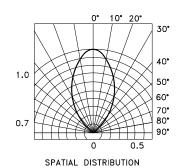
### Notes:

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

SPEC NO: DSAJ8790 **REV NO: V.1** DATE: OCT/13/2009 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Q.Q.Zhu ERP: 1101026814

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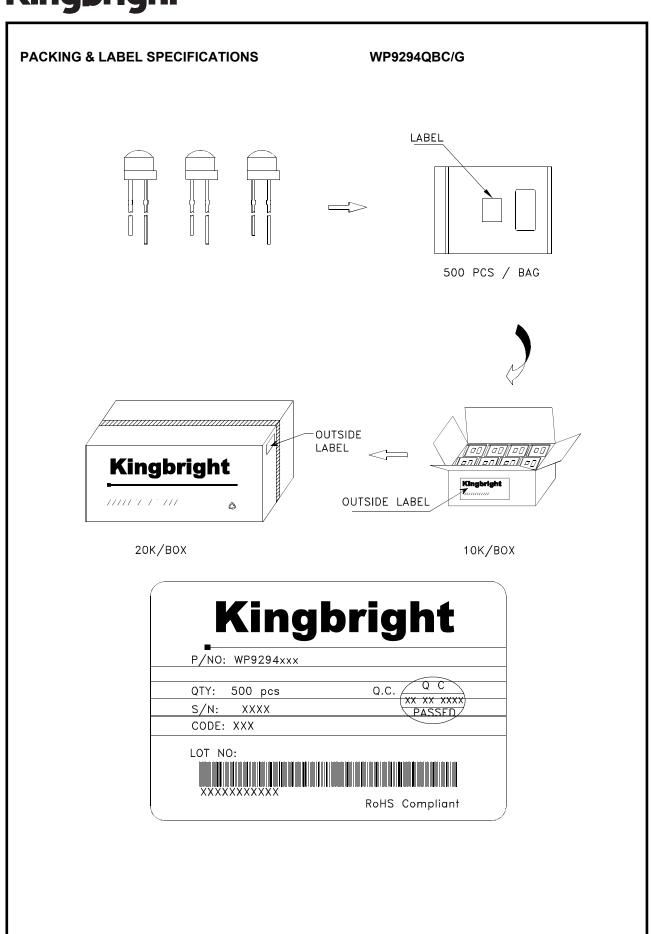
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

FORWARD CURRENT DERATING CURVE

 SPEC NO: DSAJ8790
 REV NO: V.1
 DATE: OCT/13/2009
 PAGE: 3 OF 4

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SPEC NO: DSAJ8790 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: OCT/13/2009 DRAWN: Q.Q.Zhu PAGE: 4 OF 4 ERP: 1101026814