

#### SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7678C2QBC/D



#### Features:

- \* High Luminance output.
- \* Design for High Current Operation.
- \* Uniform Color.
- \* Low Power Consumption.
- \* Low Thermal Resistance.
- \* Low Profile.
- \* Packaged in tubes for use with automatic insertion equipment.
- \* RoHS Compliant.

### **Technical Data**



# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Description**

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.

#### Benefits:

- \*Outstanding Material Efficiency.
- \*Electricity savings.
- \*Maintenance savings.
- \*Reliable and Rugged.

#### **Typical Applications:**

- \*Automotive Exterior Lighting.
- \*Electronic Signs and Signals.
- \*Specialty Lighting.

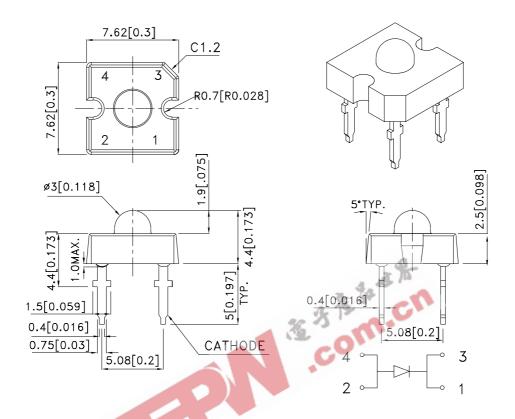




 SPEC NO: DSAH3821
 REV NO: V.1
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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.L.LI
 ERP: 1101011875

### **Outline Drawings**



#### Notes:

- 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.

#### Absolute Maximum Ratings at TA=25°C

PARAMETER	QB/D	UNITS
DC Forward Current	30	mA
Power dissipation	126	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	°C
Storage Temperature	-55 To +85	°C
Lead Solder Temperature[1]	260°C For 5 Seconds	

1.1.5mm[0.06inch]below seating plane.

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#### **Selection Guide**

Part No.	LED COLOR	lv(cd @30: Min.		Viewing Angle[2] 2θ1/2 Τyp.
WP7678C2QBC/D	Blue (AllnGaN)	1.5	2.5	40°

#### Optical Characteristics at TA=25°C I<sub>F</sub>=30mA Rθj-a=200°C/W

Optical Characteri I⊧=30mA Rθj-a=20			The state of the s	
DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.		DOMINANT[1] WAVELENGTH ADOM (nm) TYP:	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
QB/D	468	1	470	25

#### **Electrical Characteristics at TA=25°C**

DEVICE TYPE	FORWARD VOLTAGE [1] VF (VOLTS) @ IF=30mA		REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ VF=0V F=1MHZ	THERMAL RESISTANCE Rθj -pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
QB/D	3.5	4.2	10	100	180

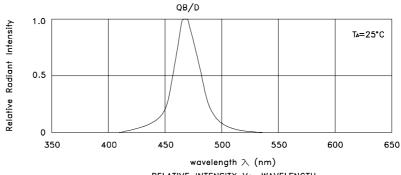
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<sup>1.</sup>Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

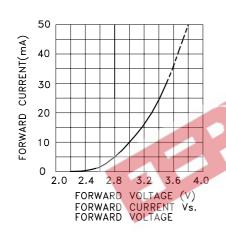
<sup>1.</sup>The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

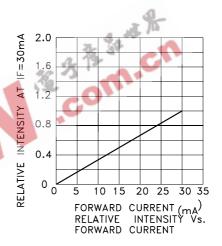
<sup>1.</sup> Forward Voltage: +/-0.1V.

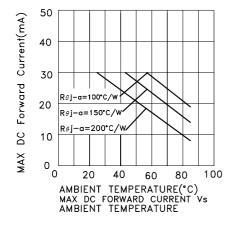
### **Figures**

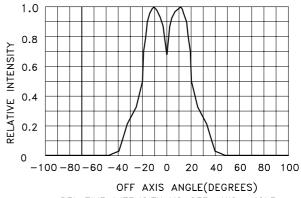


RELATIVE INTENSITY Vs. WAVELENGTH









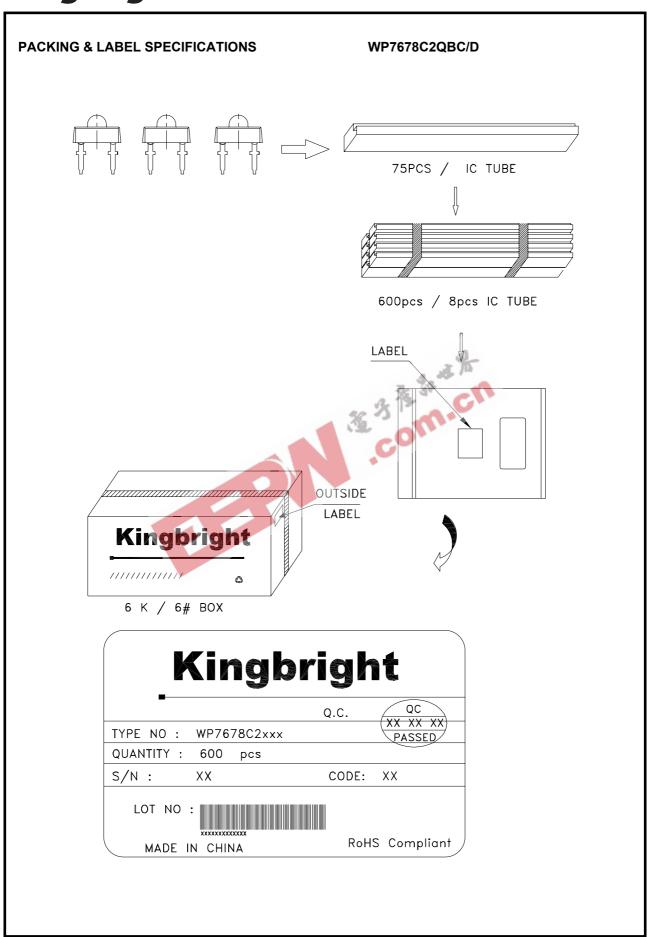
RELATIVE INTENSITY VS OFF AXIS ANGLE

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