

PRELIMINARY SPEC

Part Number: WP7700C4PBC/Z



### **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.

### Features:

- \*HIGH LUMINANCE OUTPUT.
- \*DESIGN FOR HIGH CURRENT OPEATION.
- \*SOLDERLESS MOUNTUING TECHNIQUE.
- \*LOW POWER CONSUMPTION.
- \*LOW THERMAL RESISTANCE.
- \*LOW PROFILE.
- \*PACKAGE IN TUBES FOR USE WITH AUTOMATIC INSERTION EQUIPMENT.
- \*RoHS COMPLIANT.

### Benefits:

- \*Rugged Lighting Products.
- \*Electricity savings.
- \*Maintenance savings.
- \*Environmental Conformance.

### **Typical Applications:**

- \*Automotive Exterior Lighting.
- \*Solid State Lighting and Signaling.

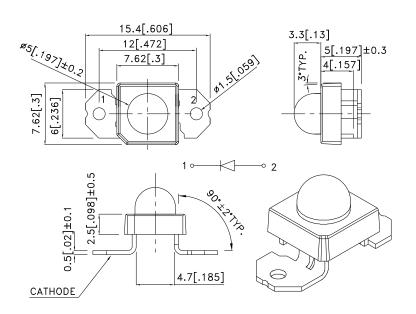




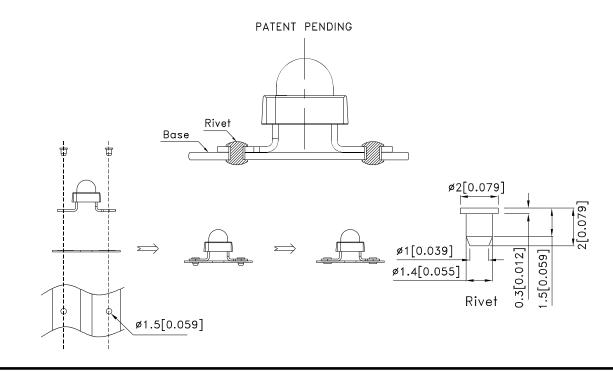
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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Ting.Li
 ERP: 1101019936

### **Outline Drawings**



- 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.



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PARAMETER	PB/Z	UNITS
DC Forward Current	50	mA
Power dissipation	210	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	°C
Storage Temperature	-55 To +85	°C

### **Selection Guide**

Part No.	LED COLOR	@50r	lv(cd)[1] @50mA		Viewing Angle[2] 2θ1/2
		Min.	Тур.	Тур.	Тур.
WP7700C4PBC/Z	Blue (InGaN)	3.8	8	2.3	25°

### Optical Characteristics at TA=25°C I<sub>F</sub>=50mA Rθj-a=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.	DOMINANT[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
PB/Z	458	465	22

#### Note:

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

DEVICE TYPE	VF (V	VOLTAGE [1] /OLTS) @ 50mA	REVERSE CURRENT IR (UA) @ VR=5V	CAPACITANCE C (pF) @ VF=0V F=1MHZ	THERMAL RESISTANCE Rθj -pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
PB/Z	3.5	4.2	10	110	130

Note:

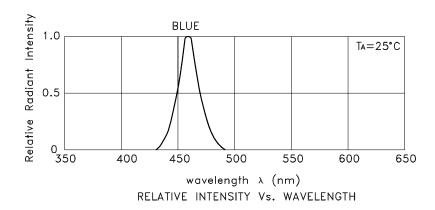
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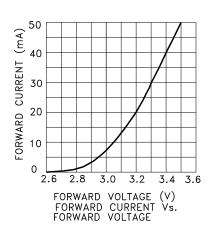
<sup>1.</sup>Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

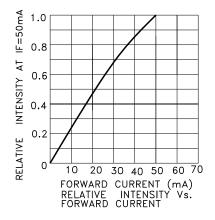
<sup>1.</sup>The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

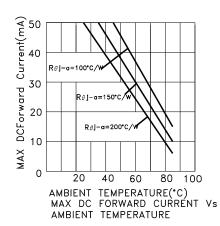
<sup>1.</sup> Forward Voltage: +/-0.1V.

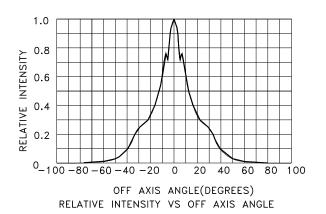
### **Figures**



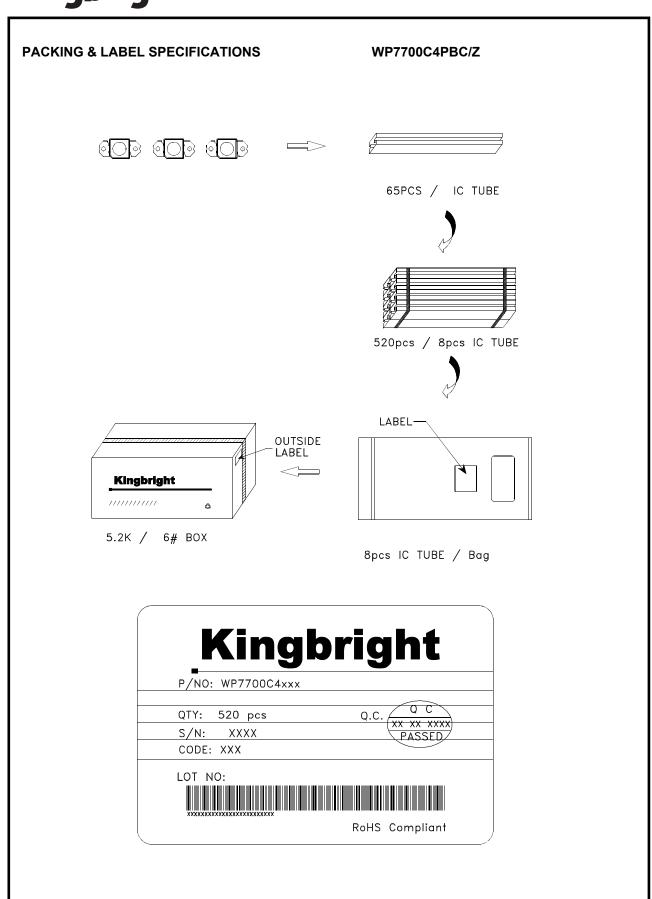








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