

SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7678C2PBC/Z



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.
- * Soldering methods: Wave soldering .
- * 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.

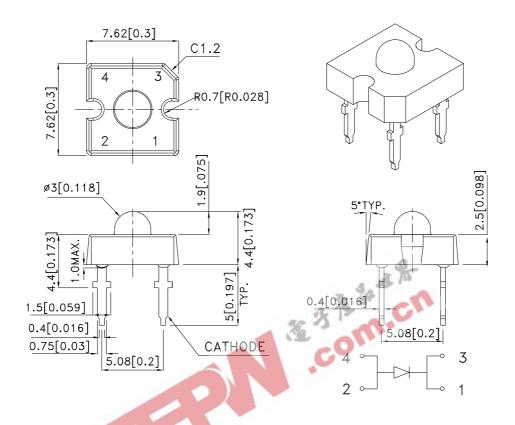




 SPEC NO: DSAH3820
 REV NO: V.4
 DATE: MAY/13/2008
 PAGE: 1 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Ting.Li
 ERP: 1101020125

Outline Drawings



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. 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	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
Lead Solder Temperature[1]	260°C For 5 Seconds	

1.1.5mm[0.06inch]below seating plane. NO Reflow soldering .

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Selection Guide

Part No.	LED COLOR	lv(cd @50 Min.		Фv(lm)[1] @50mA Тур.	Viewing Angle[2] 201/2 Typ.
WP7678C2PBC/Z	Blue (InGaN)	3.3	7	2.6	30°

Notes:

Optical Characteristics at TA=25°C I_F=50mA Rθj-a=200°C/W

Optical Characteri I⊧=50mA Rθj-a=20			2 44 1	
DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.	1	DOMINANT[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
PB/Z	458		465	22

Electrical Characteristics at TA=25°C

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

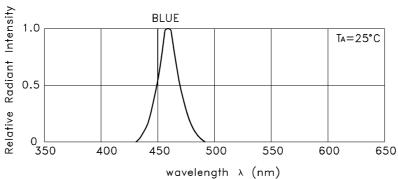
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^{1.}Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

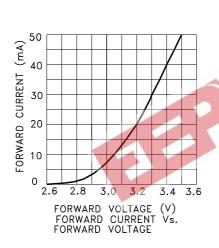
^{1.}The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

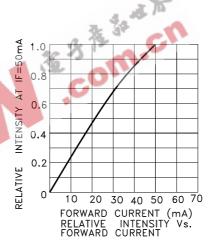
^{1.} Forward Voltage: +/-0.1V.

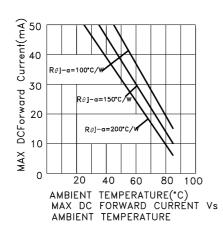
Figures

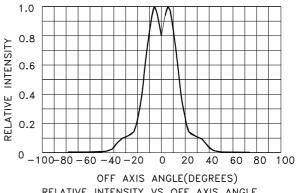


RELATIVE INTENSITY Vs. WAVELENGTH







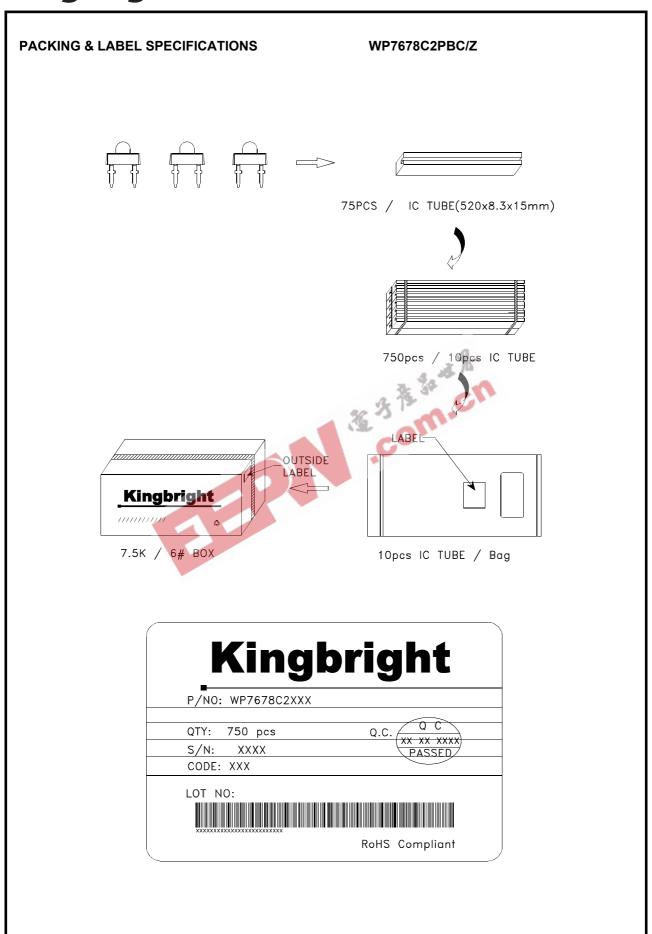


RELATIVE INTENSITY VS OFF AXIS ANGLE

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