

PRELIMINARY SPEC

Part Number: WP7679C1PBC/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 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.

Benefits:

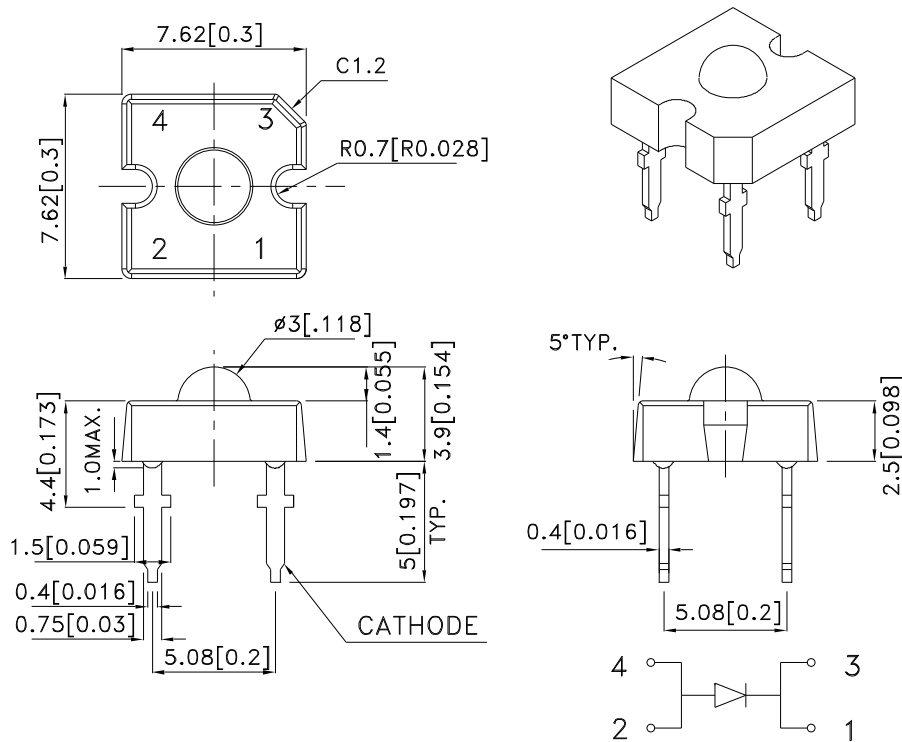
- *Outstanding Material Efficiency.
- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

Typical Applications:

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



Outline Drawings



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ 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 $T_A=25^\circ\text{C}$

PARAMETER	PB/Z	UNITS
DC Forward Current	50	mA
Power dissipation	210	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	$^\circ\text{C}$
Storage Temperature	-55 To +85	$^\circ\text{C}$
Lead Solder Temperature[1]	260 $^\circ\text{C}$ For 5 Seconds	

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

Selection Guide

Part No.	LED COLOR	Iv(cd) ^[1] @50mA		Φv(lm) ^[1] @50mA	Viewing Angle ^[2] 2θ1/2
		Min.	Typ.	Typ.	Typ.
WP7679C1PBC/Z	Blue (InGaN)	0.9	2.5	2.4	50°

Notes:

- 1.Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%.
 2.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Optical Characteristics at TA=25°C I_F=50mA R_{θj-a}=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λ _{PEAK} (nm) TYP.	DOMINANT ^[1] WAVELENGTH λ _{DOM} (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
PB/Z	458	465	22

Note:

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

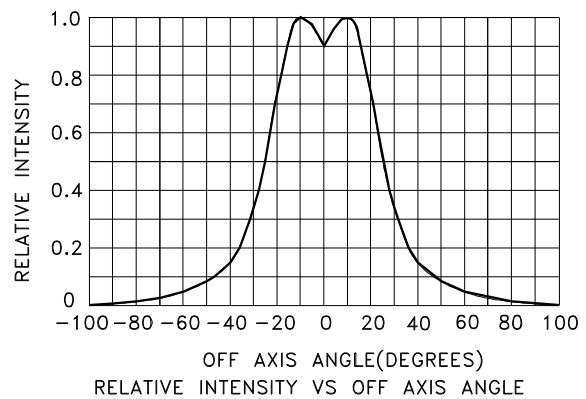
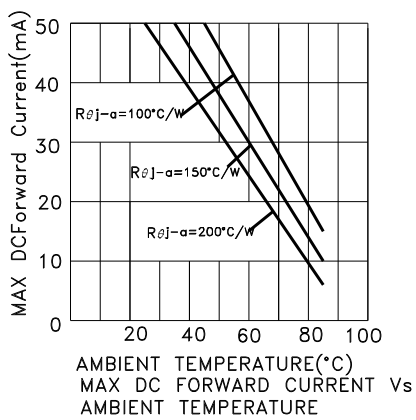
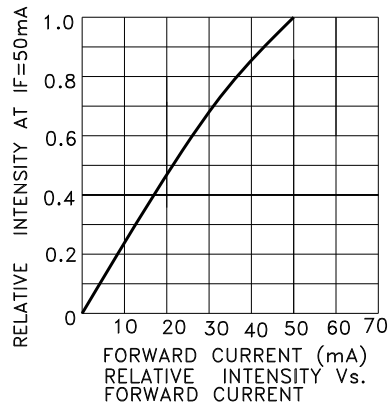
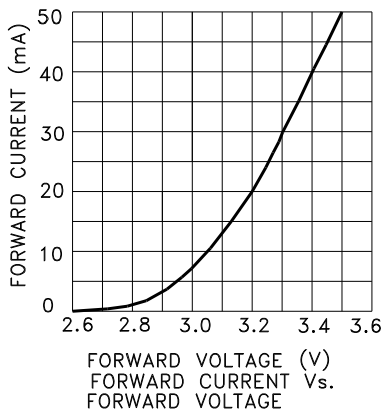
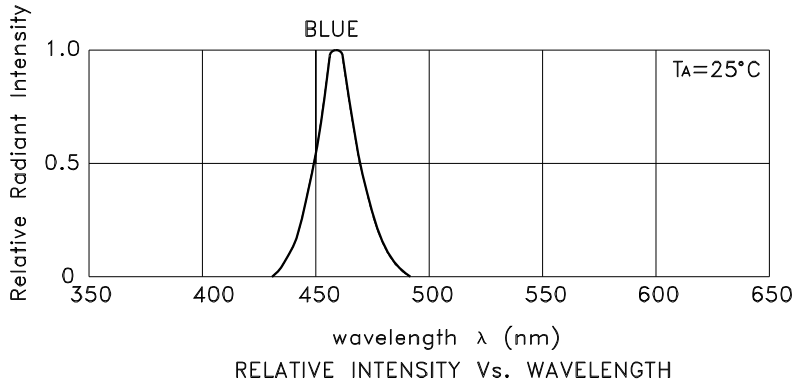
Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARD VOLTAGE [1] V _F (VOLTS) @ I _F =50mA		REVERSE CURRENT I _R (uA) @ V _R =5V	CAPACITANCE C (pF) @ V _F =0V F=1MHZ	THERMAL RESISTANCE R _{θj} -pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
PB/Z	3.5	4.2	10	110	130

Note:

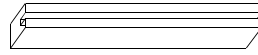
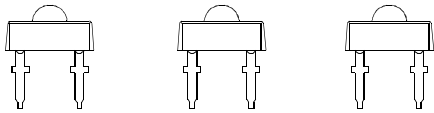
1. Forward Voltage: +/-0.1V.

Figures

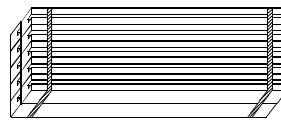


PACKING & LABEL SPECIFICATIONS

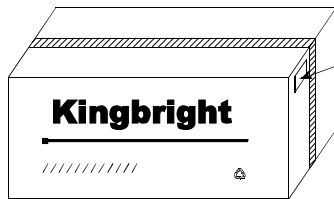
WP7679C1PBC/Z



75PCS / IC TUBE(520x8.3x15mm)



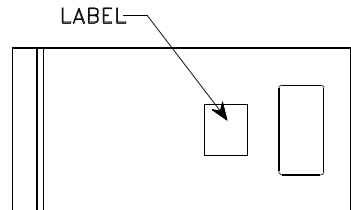
750pcs / 10pcs IC TUBE




OUTSIDE LABEL



7.5K / 6# BOX



10pcs IC TUBE / BAG

<h1>Kingbright</h1>	
P/NO: WP7679C1xxx	
QTY: 750 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXX	
RoHS Compliant	