

T-1 3/4 (5mm) SOLID STATE LAMP

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: WP7524PBC/Z

BLUE

Features

- •LOW POWER CONSUMPTION.
- ●POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- ●RoHS COMPLIANT.

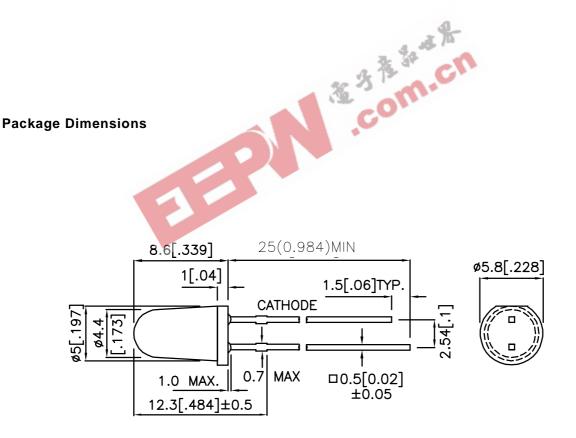
Description

The Blue source color devices are made with InGaN Light Emitting Diode.

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.



Notes:

- 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.





SPEC NO: DSAH0994 REV NO: V.2 DATE: MAY/21/2007 PAGE: 1 OF 4
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: D.M.LIU ERP: 1101019348

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP7524PBC/Z	BLUE (InGaN)	WATER CLEAR	2200	4500	10°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
 2. Luminous Intensity/ Luminous Flux: +/-15%.

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	458		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	22	4	nm	IF=20mA
С	Capacitance	Blue	110	k 30	pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	3.7	V	IF=20mA
lr	Reverse Current	Blue	VIL.	10	uA	VR = 5V

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

Absolute Maximum Ratings at Ta=25°C

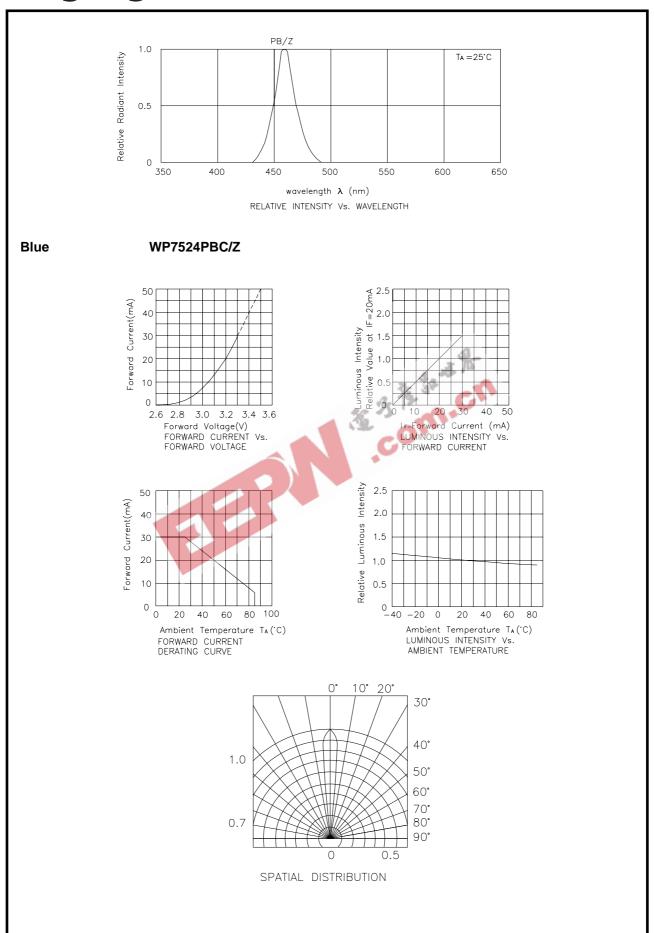
Parameter	Blue	Units			
Power dissipation	111	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	100	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	older Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3] 260°C For 5 Seconds					

Notes:

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

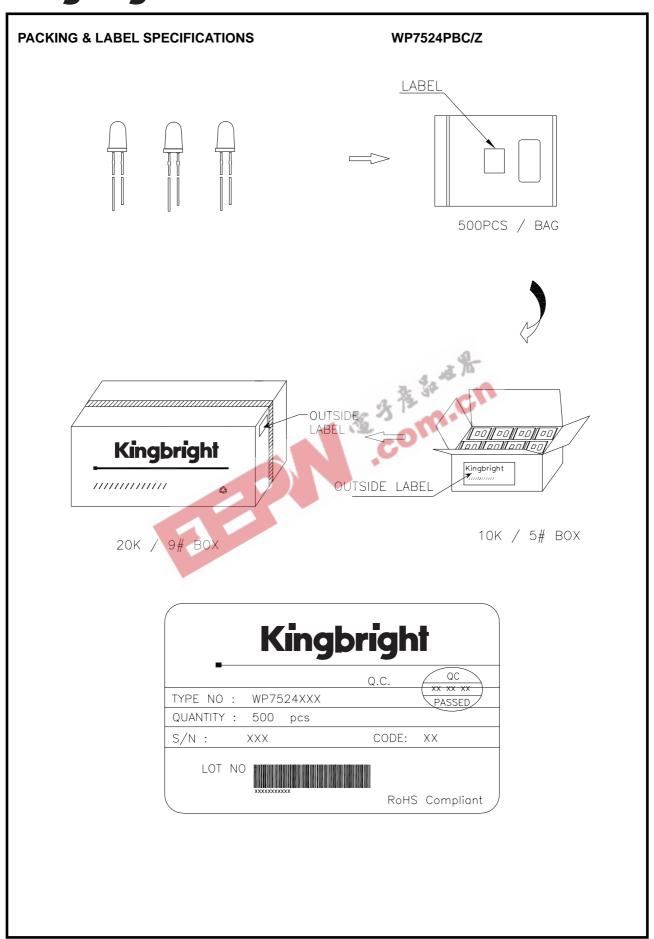
SPEC NO: DSAH0994 **REV NO: V.2** DATE: MAY/21/2007 PAGE: 2 OF 4 **APPROVED: WYNEC** CHECKED: Allen Liu DRAWN: D.M.LIU ERP: 1101019348

Kingbright



SPEC NO: DSAH0994 REV NO: V.2 DATE: MAY/21/2007 PAGE: 3 OF 4
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: D.M.LIU ERP: 1101019348

Kingbright



SPEC NO: DSAH0994 REV NO: V.2 DATE: MAY/21/2007 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: D.M.LIU PAGE: 4 OF 4 ERP: 1101019348