T-1 (3mm) SOLID STATE LAMP

PRELIMINARY SPEC

ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE DEVICES

Part Number: WP7104PBC/Z

BLUE

Features

- •LOW POWER CONSUMPTION.
- •POPULAR T-1 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

Description

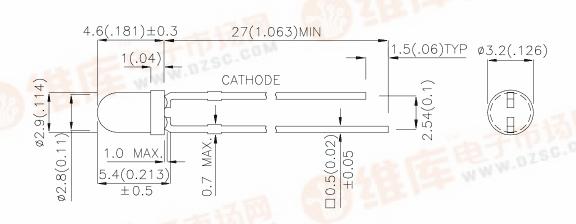
The Blue source color devices are made with InGaN Light Emitting Diode.

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.

Package Dimensions



- All dimensions are in millimeters (inches).
- Tolerance is ±0.25(0.01") unless otherwise noted.
 Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP7104PBC/Z	BLUE (InGaN)	WATER CLEAR	1500	3000	20°

- 1. θ 1/2 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		nm	IF=20mA
С	Capacitance	Blue	110		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	3.7	V	I==20mA
lr	Reverse Current	Blue		10	uA	VR = 5V

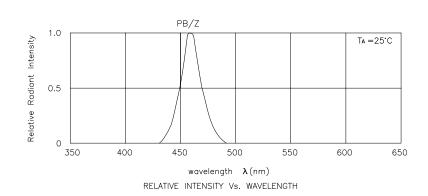
- Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at Ta=25°C

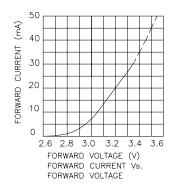
Parameter	Blue	Units			
Power dissipation	111	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	100	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	Solder Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3]	ad Solder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

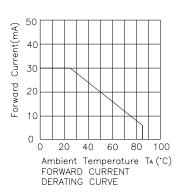
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
 3. 5mm below package base.

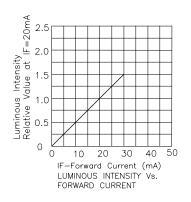
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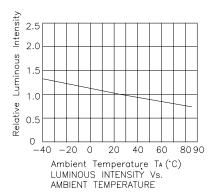


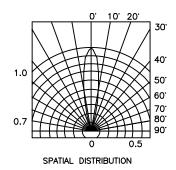
Blue WP7104PBC/Z



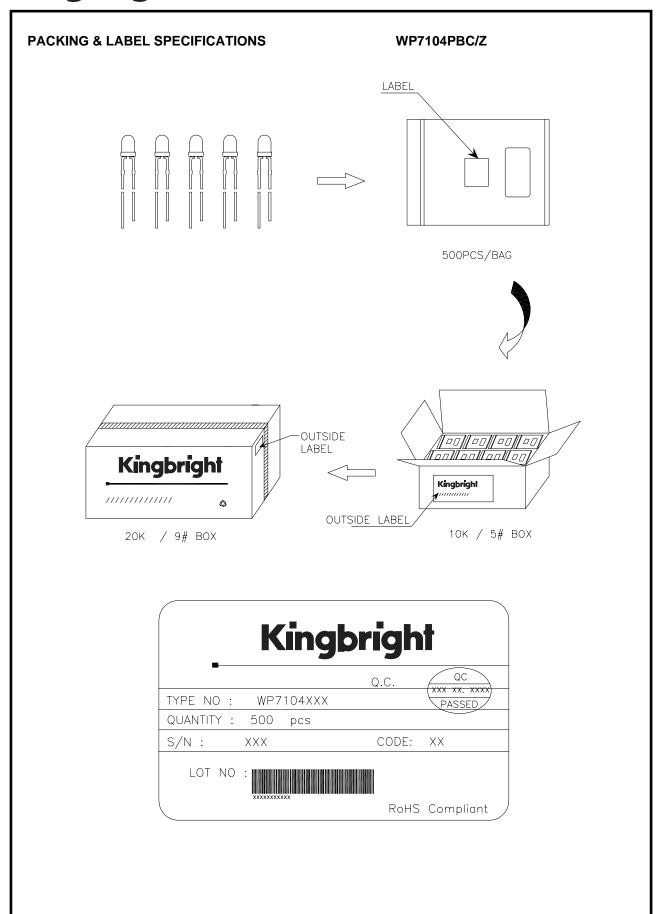








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