

## Excellent Integrated System Limited

Stocking Distributor

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[Kingbright](#)  
[WP7104PR51C/A](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# Kingbright

## T-1 (3mm) SOLID STATE LAMP

PRELIMINARY SPEC

Part Number: WP7104PR51C/A

CYAN



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

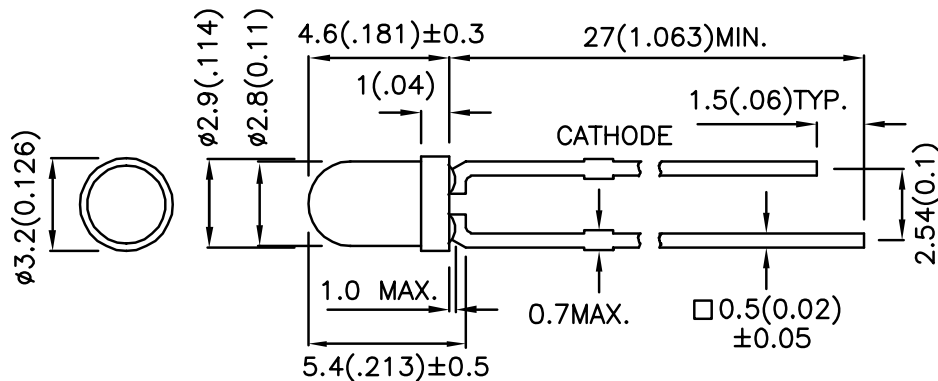
### Features

- 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 source color devices are made with InGaN on SiC 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



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.

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## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7104PR51C/A	CYAN (InGaN)	WATER CLEAR	480	1600	34°

Notes:

1. θ1/2 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	Typ.	Max.	Units	Test Conditions
V <sub>F</sub> [1]	Forward Voltage	Cyan	3.3	3.8	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Cyan		10	uA	V <sub>R</sub> = 5V
X [2]	Chromaticity Coordinates	Cyan	0.18			I <sub>F</sub> =20mA
Y [2]			0.39			
C	Capacitance	Cyan	100		pF	V <sub>F</sub> =0V;f=1MHz

Notes:

1. Forward Voltage: +/-0.1V.
2. Chromaticity Coordinates X, Y: +/-0.03.

## Absolute Maximum Ratings at TA=25°C

Parameter	Cyan	Units
Power dissipation	114	mW
DC Forward Current	30	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

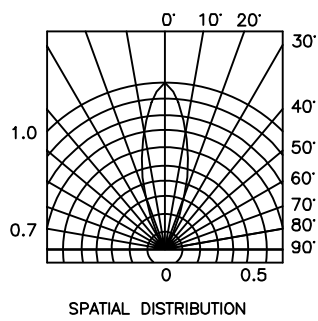
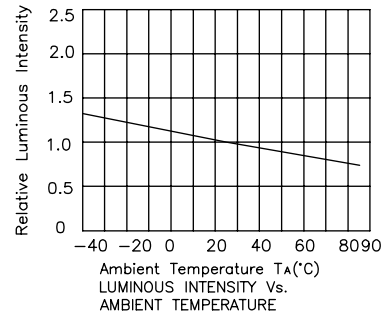
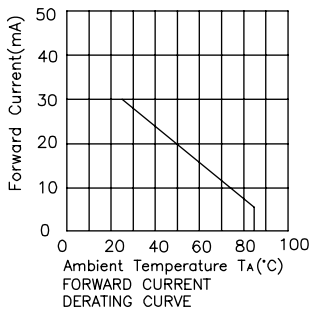
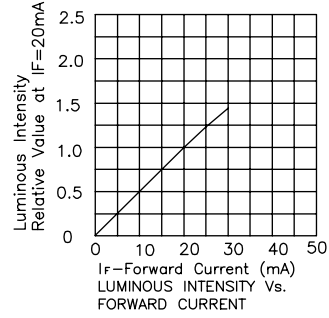
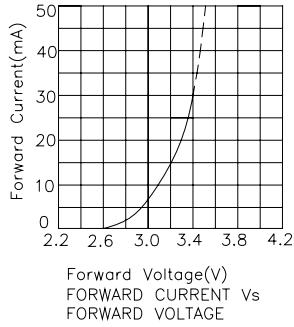
Notes:

1. 2mm below package base.
2. 5mm below package base.

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Cyan

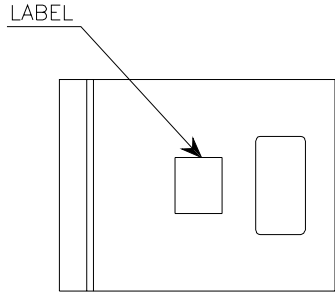
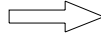
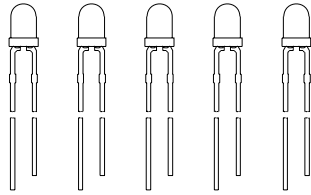
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## PACKING & LABEL SPECIFICATIONS

## WP7104PR51C/A

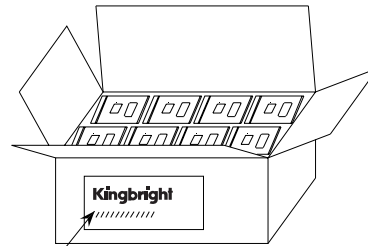
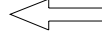


500PCS/BAG



20K / 9# BOX

OUTSIDE LABEL



10K / 5# BOX

OUTSIDE LABEL

<h1>Kingbright</h1>	
Q.C.	
TYPE NO : WP7104XXX	
QUANTITY : 500 pcs	
S/N : XXX	CODE: XX
LOT NO :	
RoHS Compliant	