

PRELIMINARY SPEC

Part Number: WP7113PR51C/A

CYAN



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

### Features

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

### Description

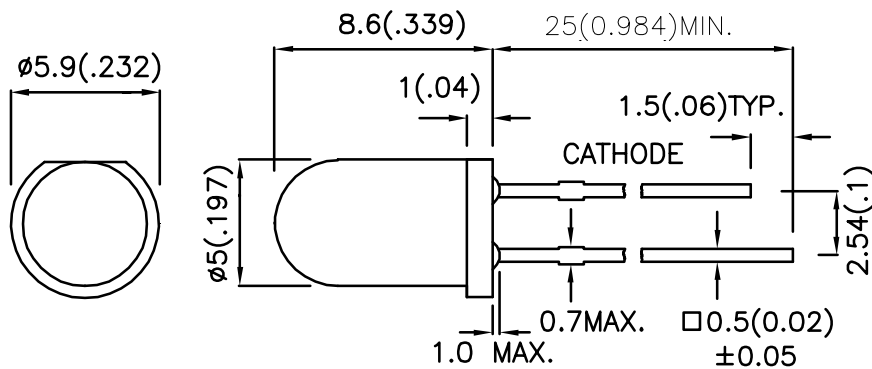
The source color devices are made with InGaN on SiC Light Emitting Diode.

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.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7113PR51C/A	CYAN (InGaN)	WATER CLEAR	900	2200	20°

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

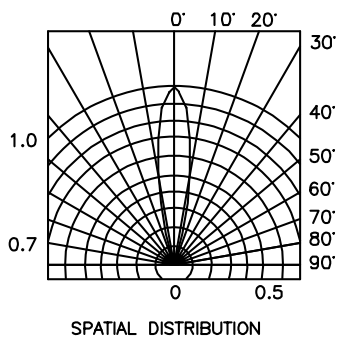
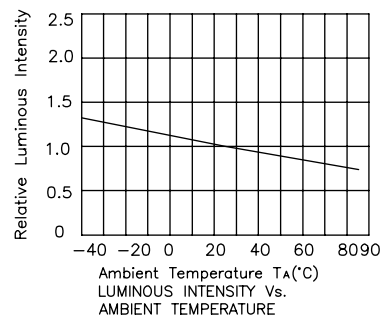
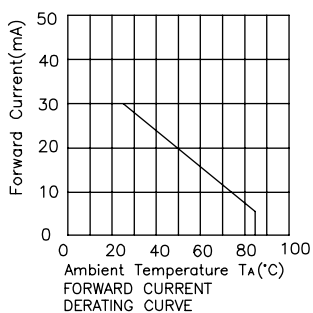
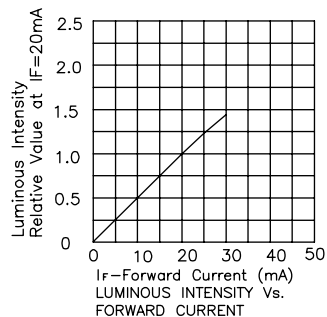
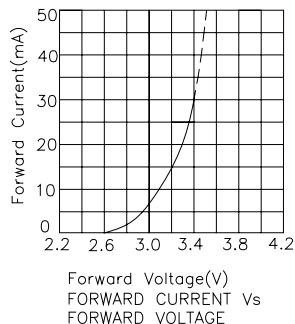
Parameter	Cyan	Units
Power dissipation	114	mW
DC Forward Current	30	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

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

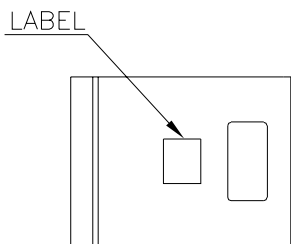
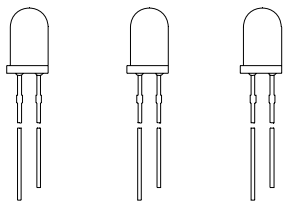
Cyan

WP7113PR51C/A



## PACKING & LABEL SPECIFICATIONS

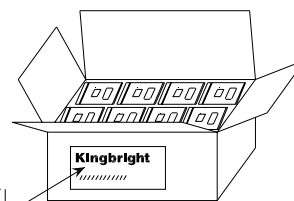
WP7113PR51C/A



500PCS / BAG




OUTSIDE LABEL



OUTSIDE LABEL

20K / 9# BOX

10K / 5# BOX

<b>Kingbright</b>				
Q.C.	<table border="1"> <tr> <td style="text-align: center;">QC</td> </tr> <tr> <td style="text-align: center;">xxx xx. xxxx</td> </tr> <tr> <td style="text-align: center;">PASSED</td> </tr> </table>	QC	xxx xx. xxxx	PASSED
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xxx xx. xxxx				
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TYPE NO :	WP7113XXX			
QUANTITY :	500 pcs			
S/N :	XXX			
	CODE: XX			
LOT NO :	 xxxxxxxxxxxx			
	RoHS Compliant			