

T-1 (3mm) SOLID STATE LAMP

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: WP7104PR51C/A

CYAN

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

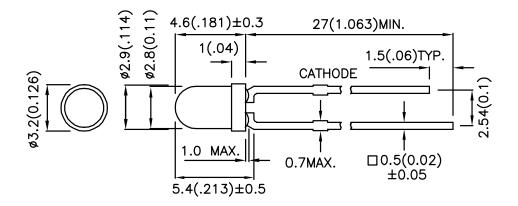
The source color devices are made with InGaN on SiC Light Emitting Diode.

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:

- 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: DSAF8666
 REV NO: V.2
 DATE: JUL/18/2006
 PAGE: 1 OF 4

 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: W.J.ZHU
 ERP: 1101017275

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP7104PR51C/A	CYAN (InGaN)	WATER CLEAR	480	1600	34°

 $1.\,01/2$ 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
VF [1]	Forward Voltage	Cyan	3.3	3.8	V	IF=20mA
lR	Reverse Current	Cyan		10	uA	VR = 5V
X [2]	Chyamaticity Coordinates	Cyan	0.18			- IF=20mA
Y [2]	Chromaticity Coordinates		0.39			
С	Capacitance	Cyan	100		pF	VF=0V;f=1MHz

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			

1. 2mm below package base.

2. 5mm below package base.

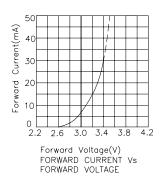
SPEC NO: DSAF8666 **REV NO: V.2** DATE: JUL/18/2006 PAGE: 2 OF 4 APPROVED: J. Lu **CHECKED: Allen Liu DRAWN: W.J.ZHU** ERP: 1101017275

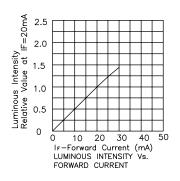
Forward Voltage: +/-0.1V.
 Chromaticity Coordinates X, Y: +/-0.03.

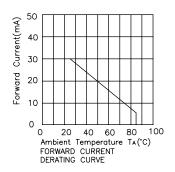
Kingbright

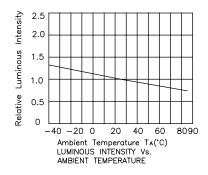
Cyan

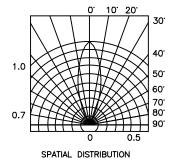
WP7104PR51C/A





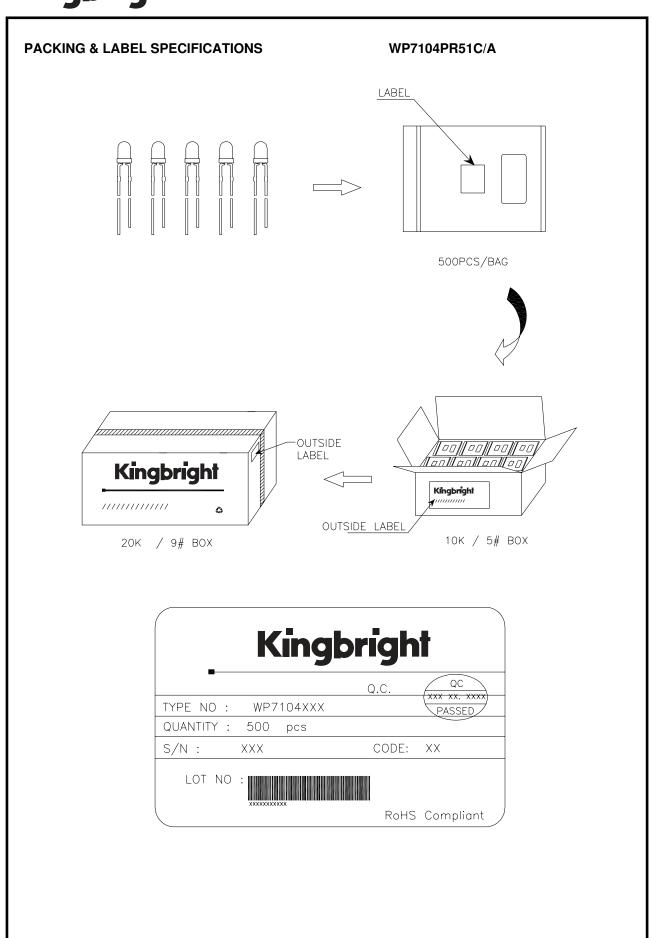






SPEC NO: DSAF8666 APPROVED: J. Lu REV NO: V.2 CHECKED: Allen Liu DATE: JUL/18/2006 DRAWN: W.J.ZHU PAGE: 3 OF 4 ERP: 1101017275

Kingbright



SPEC NO: DSAF8666 APPROVED: J. Lu REV NO: V.2 CHECKED: Allen Liu DATE: JUL/18/2006 DRAWN: W.J.ZHU PAGE: 4 OF 4 ERP: 1101017275