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



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

WP7104PWC/A

WHITE

### **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**

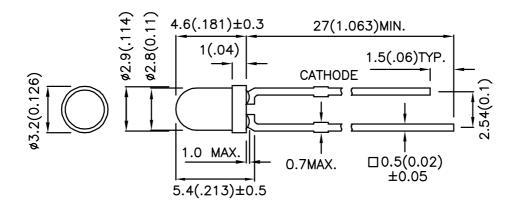
The source color devices are made with InGaN on SiC Light Emitting Diode.

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: DSAF5188 REV NO: V.1 DATE: JUN/28/2005 PAGE: 1 OF 4
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1101015415

## **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
WP7104PWC/A	WHITE (InGaN)	WATER CLEAR	180	600	34°

#### Note:

## Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
VF	Forward Voltage	White	3.3	3.8	V	IF=20mA
lR	Reverse Current	White		10	uA	VR = 5V
Х	Chromoticity Coordinates	White	0.33			
Y	Chromaticity Coordinates		0.34			
С	Capacitance	White	100		pF	VF=0V;f=1MHz

## Absolute Maximum Ratings at Ta=25°C

Parameter	White	Units		
Power dissipation	110	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]	260°C For 3 Seconds			
Lead Solder Temperature [3]	ture [3] 260°C For 5 Seconds			

### Notes

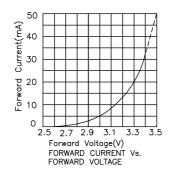
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

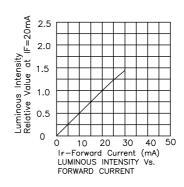
SPEC NO: DSAF5188 REV NO: V.1 DATE: JUN/28/2005 PAGE: 2 OF 4

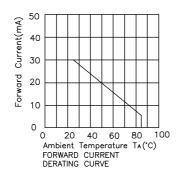
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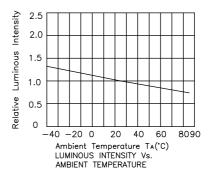
<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

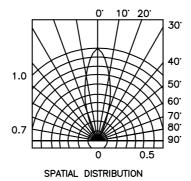
## White WP7104PWC/A



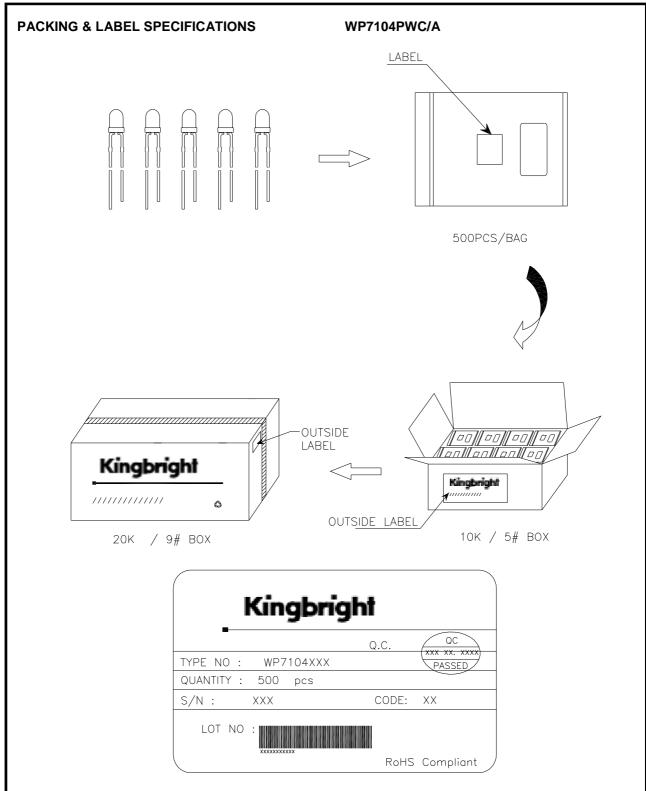








SPEC NO: DSAF5188 REV NO: V.1 DATE: JUN/28/2005 PAGE: 3 OF 4
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1101015415



## Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

- 1. Chromaticity Coordinates X, Y: +/-0.02
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

 SPEC NO: DSAF5188
 REV NO: V.1
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 PAGE: 4 OF 4

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