



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

WP814PWC/A

WHITE

PRELIMINARY SPEC

Features

- 10mm DIAMETER BIG LAMP.
- I.C. COMPATIBLE.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

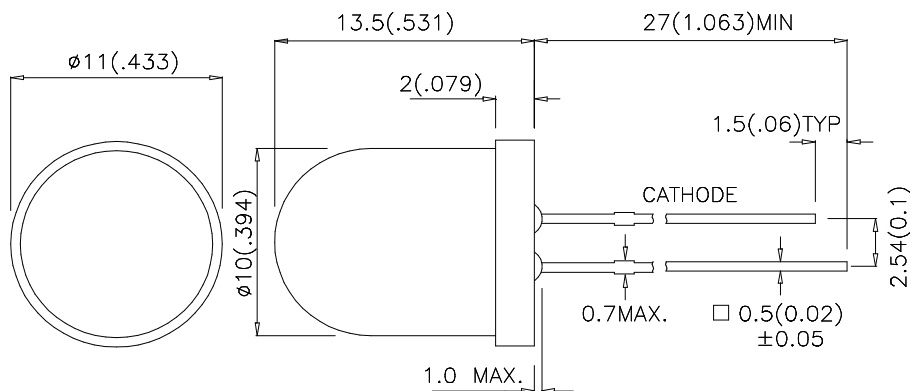
The source color devices are made with InGaN on SiC Light Emitting Diode.

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) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
WP814PWC/A	WHITE (InGaN)	WATER CLEAR	380	600	15°

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V _F	Forward Voltage	White	3.3	3.8	V	I _F =20mA
I _R	Reverse Current	White		10	uA	V _R = 5V
X	Chromaticity Coordinates	White	0.33			
Y			0.34			
C	Capacitance	White	100		pF	V _F =0V;f=1MHz

Absolute Maximum Ratings at T_A=25°C

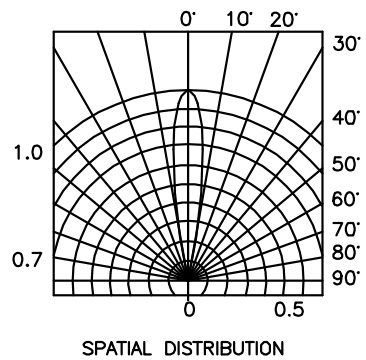
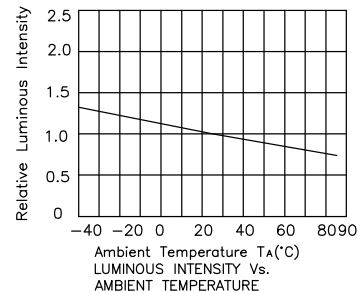
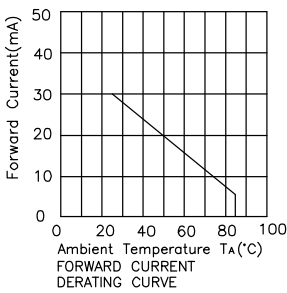
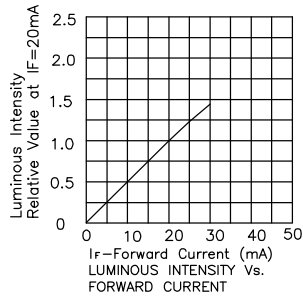
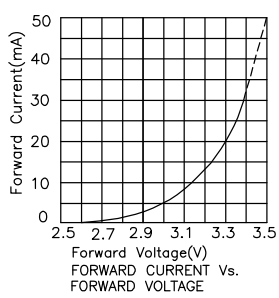
Parameter	White	Units
Power dissipation	110	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

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

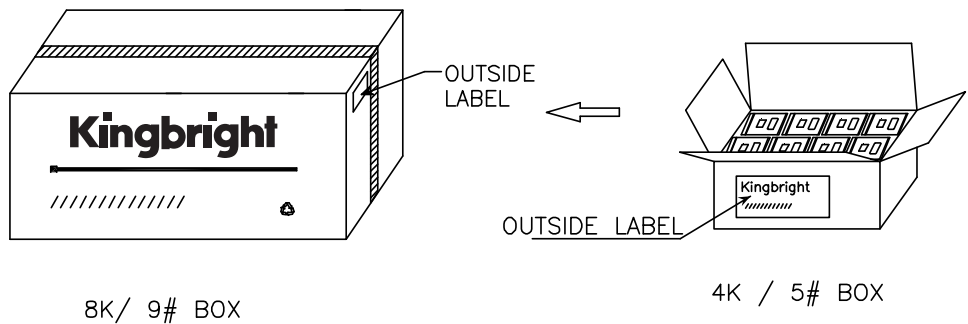
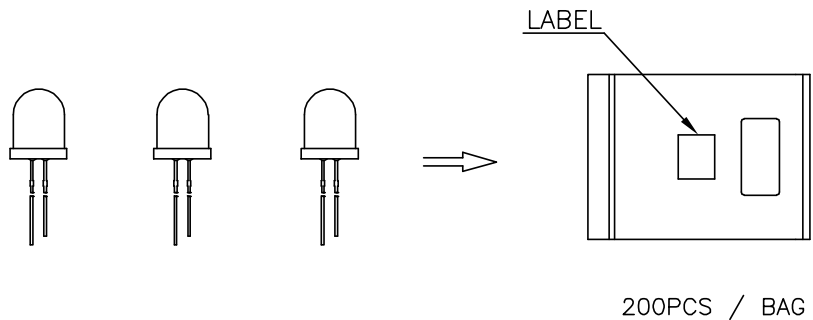
White

WP814PWC/A



PACKING & LABEL SPECIFICATIONS

WP814PWC/A



Kingbright	
Q.C. QC xxx-xx-xxxx PASSED	
TYPE NO : WP814XXX	
QUANTITY : 200 pcs	
S/N : XXX	CODE: XXX
LOT NO : 	
MADE IN CHINA	RoHS Compliant

Remarks:

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

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

Note: Accuracy may depend on the sorting parameters.

Mouser Electronics

Authorized Distributor

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