



**OptoSupply**

*Light It Up*

**Super Flux Pure White LED**

**OSWX4EZ2C1P**

## ■Features

- High Luminous Super Flux Output
- UV Resistant Epoxy
- Long Lifetime Operation
- Water Clear Type

## ■Applications

- General Purpose Indicators/Back Lighting
- Small Area Illuminations/Other Lighting

## ■ Manual soldering (Solder Iron)

- Temperature at tip of the iron: 350°C Max.
- It's banned to load any stress on the resin during soldering.
- Soldering time: 3sec.Max.(one time only.)
- Leave 3mm of minimum distance from the base of the epoxy.

## ■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I <sub>F</sub>	90	mA
Pulse Forward Current#	I <sub>FP</sub>	360	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	324	mW
Operating Temperature	T <sub>opr</sub>	-30 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Lead Soldering Temperature	T <sub>sol</sub>	260°C / 5sec	-

#Pulse width Max.10ms , Duty ratio max 1/10

## ■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V <sub>F</sub>	I <sub>F</sub> =90mA	2.8	3.1	3.6	V
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	30	µA
Luminous Intensity*2	I <sub>v</sub>	I <sub>F</sub> =90mA	10000	14400	-	mcd
Luminous Flux*3	Φ <sub>v</sub>	I <sub>F</sub> =90mA	-	30	-	lm
Color Temperature*4	CCT	I <sub>F</sub> =90mA	6500	8000	9500	K
Chromaticity	x	I <sub>F</sub> =90mA	-	0.29	-	
Coordinates*5	y	I <sub>F</sub> =90mA	-	0.32	-	
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =90mA	-	120	-	deg

\*1 Tolerance of measurements of forward voltage is ±0.1V

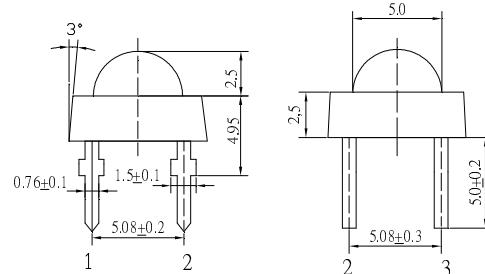
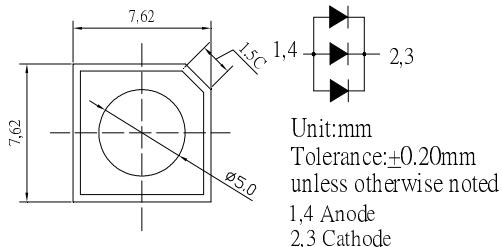
\*2 Tolerance of measurements of luminous intensity is ±15%

\*3 Tolerance of measurements of luminous flux is ±15%

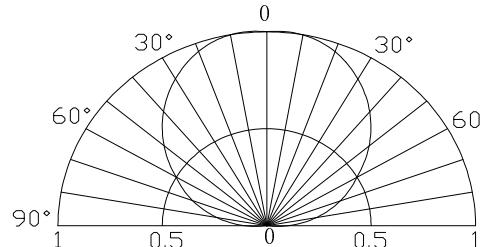
\*4 Tolerance of measurements of color temperature is ±10%

\*5 Tolerance of measurements of chromaticity coordinates is ±10%

## ■Outline Dimension



## ■Directivity



**LED & Application Technologies**



## InGaN LED

### TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

