

#### 7.6mm x 7.6mm SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP76761CSEC/J

HYPER ORANGE

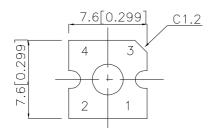
#### **Features**

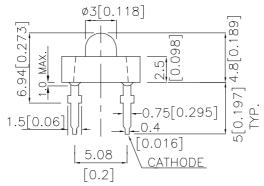
- •SUPER FLUX OUTPUT.
- •DESIGN FOR HIGH CURRENT OPERATION.
- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- •Rohs Compliant.

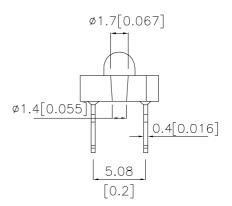
#### Description

The Super Bright device is based on a light emitting diode chip made from AlGaInP and bonded on silicon substrate.

## **Package Dimensions**







#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±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.

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## **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA *70mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP76761CSEC/J	HYPER ORANGE (AlGaInP)	WATER CLEAR	4700	13000	20°
			*16000	*45000	

#### Notes:

- $1.\,\theta 1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2. \* Luminous intensity with asterisk is measured at 70mA under 40ms pulse width; Luminous intensity / luminous flux: +/-15%.
- 3.Drive current between 10mA and 30mA are recommended for long term performance.
- 4. Operation at current below 10mA is not recommended.

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Orange	640		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Orange	630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Orange	25		nm	IF=20mA
С	Capacitance	Hyper Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	IF=20mA
lr	Reverse Current	Hyper Orange		10	uA	VR = 5V

#### Notes:

- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at Ta=25°C

Parameter	Hyper Orange	Units			
Power dissipation	84	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	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				

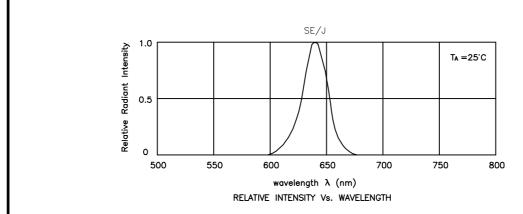
#### Notes:

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

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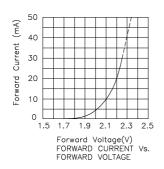
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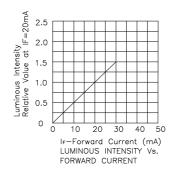
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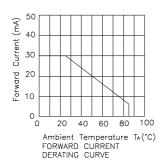


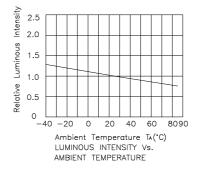
**Hyper Orange** 

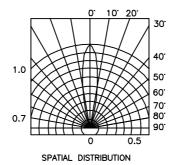
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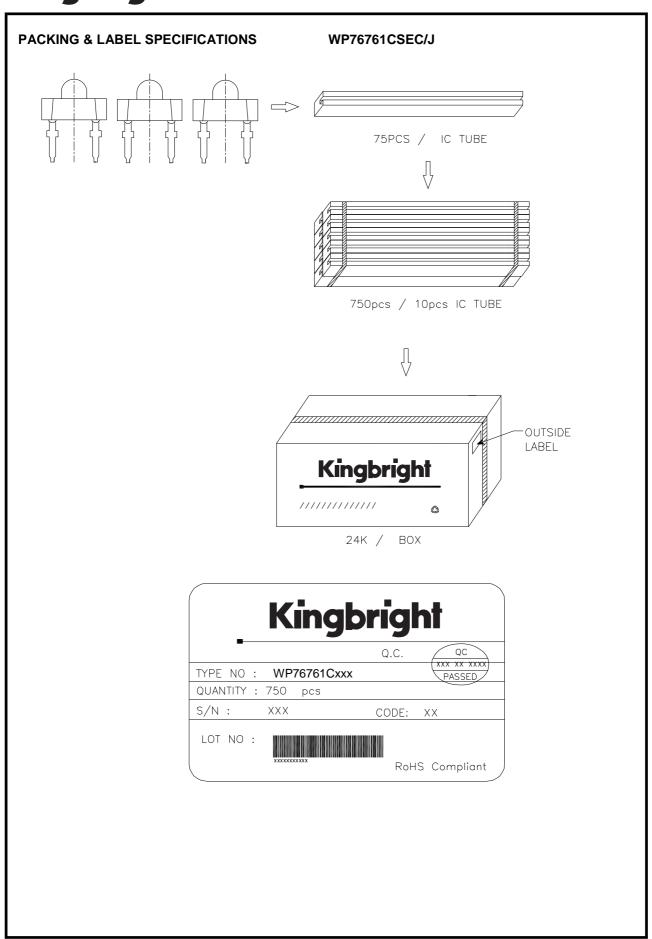




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