PRELIMINARY SPEC

Part Number: WP7676CSEC/J HYPER ORANGE

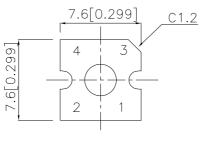
### **Features**

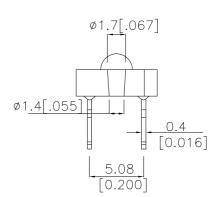
- •SUPER FLUX OUTPUT.
- •DESIGN FOR HIGH CURRENT OPERATION.
- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- ●RoHS COMPLIANT.

# **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  $\pm 0.25 (0.01\mbox{"})$  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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# Kingbright

#### **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) [5] @ 20mA *70mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP7676CSEC/J	HYPER ORANGE (AlGainP)	WATER CLEAR	1800	2800	70°
			*5700	*9000	

- 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.
- 3.Drive current between 10mA and 30mA are recommended for long term performance.
  4.Operation at current below 10mA is not recommended.
  5. Luminous intensity/ luminous Flux: +/-15%.

### 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
IR	Reverse Current	Hyper Orange		10	uA	VR = 5V

#### Notes:

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

# Absolute Maximum Ratings at Ta=25°C

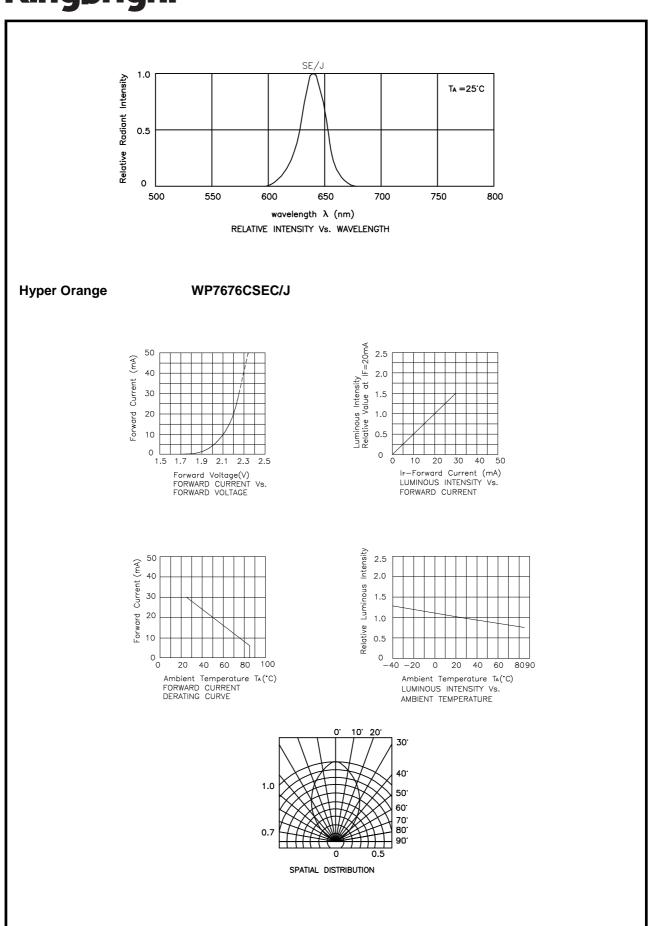
Parameter	Hyper Orange	Units		
Power dissipation	84	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	ture [3] 260°C For 5 Seconds			

#### Notes:

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

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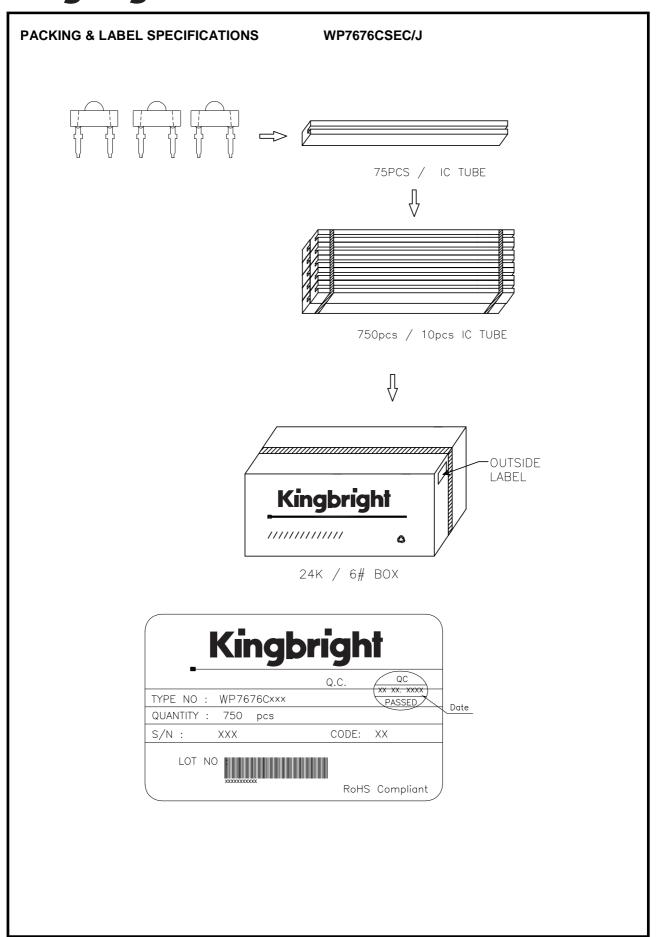
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