

7.6mmX7.6mm SUPER FLUX LED LAMP

PRELIMINARY SPEC

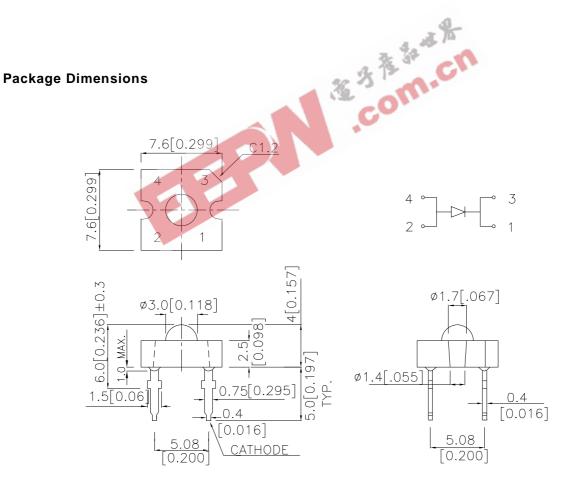
Part Number: WP7676CSYC/J SUPER BRIGHT YELLOW

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.



Notes

- 1. All dimensions are in millimeters (inches).
- 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) [5] @ 20mA *70mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP7676CSYC/J	SUPER BRIGHT YELLOW (AlGaInP)	WATER CLEAR	380	900	70°
			*1500	*3500	

Notes:

- 1. 01/2 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	Super Bright Yellow	590		₁ nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589	1. 16	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20	100	nm	IF=20mA
С	Capacitance	Super Bright Yellow	45	-	pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2.3	2.8	V	IF=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	VR = 5V

Notes:

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

Absolute Maximum Ratings at Ta=25°C

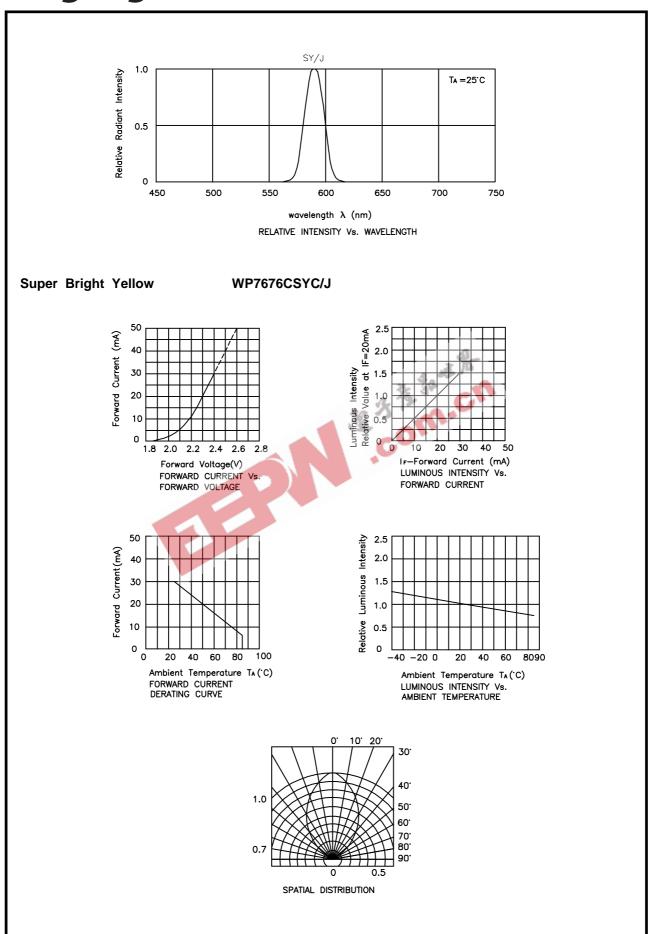
Parameter	Super Bright Yellow	Units			
Power dissipation	84	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	140	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2] 260°C For 3 Seconds					
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

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

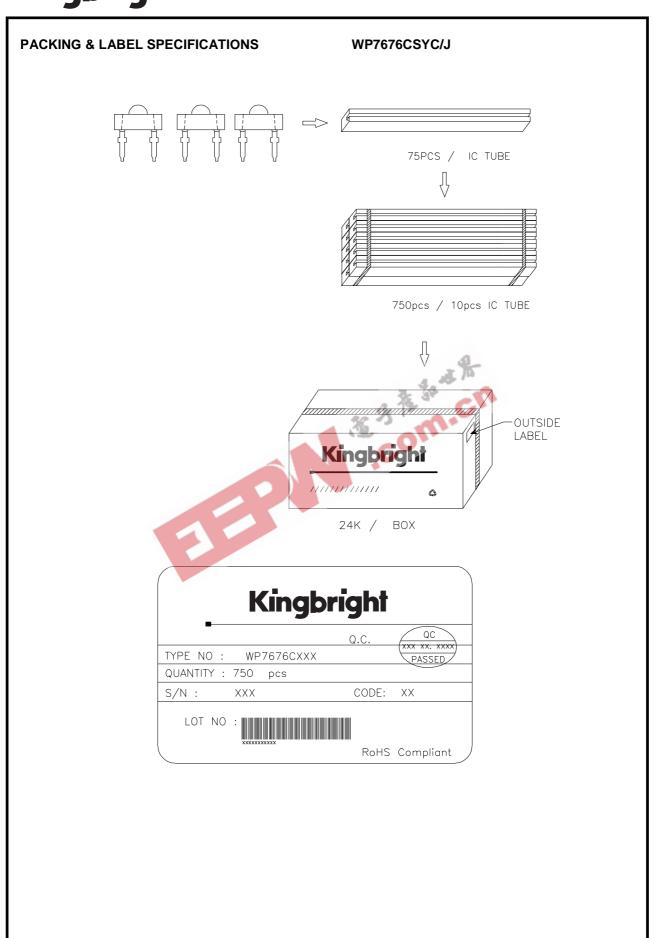
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