

PRELIMINARY SPEC

Part Number: WP76761CSYC/J SUPER BRIGHT YELLOW

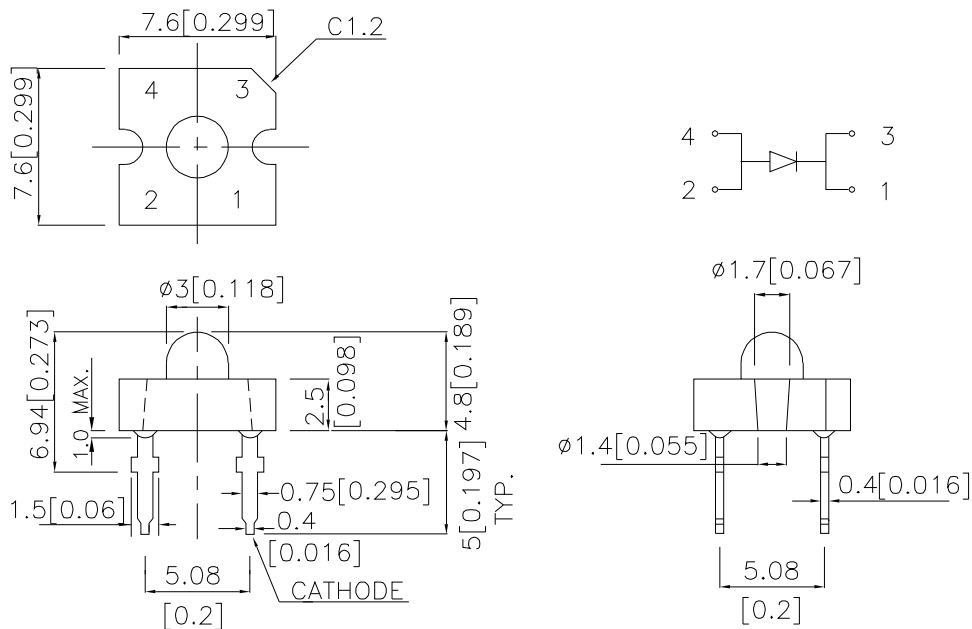
Features

- 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.

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.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA *70mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP76761CSYC/J	SUPER BRIGHT YELLOW (AlGaInP)	WATER CLEAR	2200	4500	20°
			*7500	*16000	

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 T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Yellow	590		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Yellow	589		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Yellow	20		nm	I _F =20mA
C	Capacitance	Super Bright Yellow	45		pF	V _F =0V; f=1MHz
V _F [2]	Forward Voltage	Super Bright Yellow	2.3	2.8	V	I _F =20mA
I _R	Reverse Current	Super Bright Yellow		10	uA	V _R = 5V

Notes:

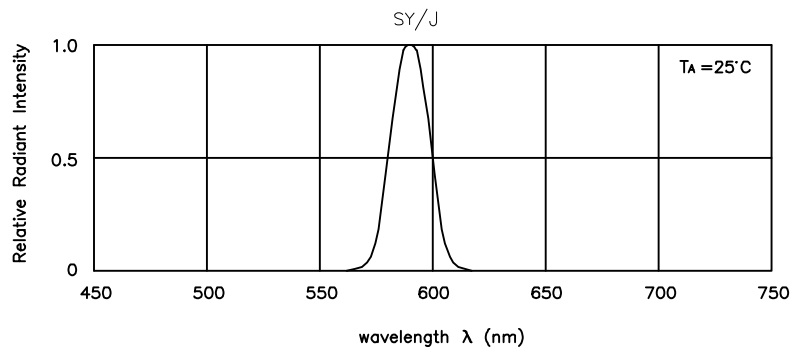
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at T_A=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:

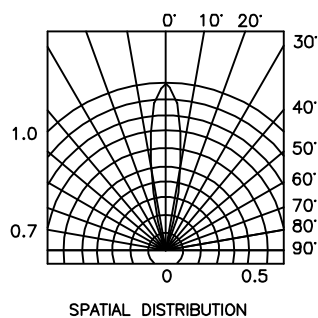
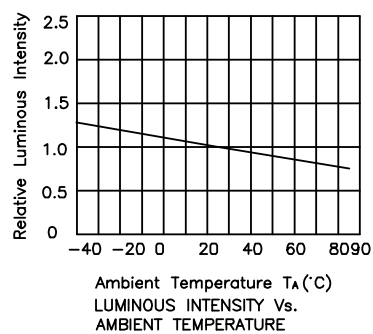
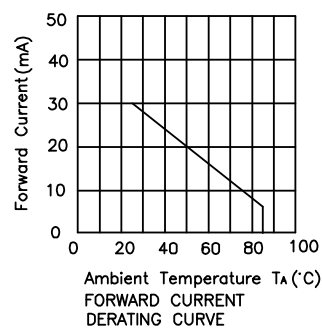
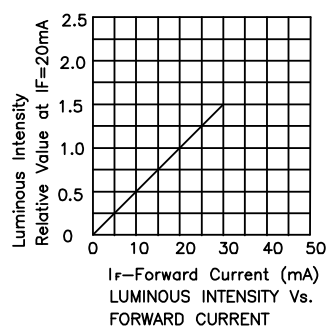
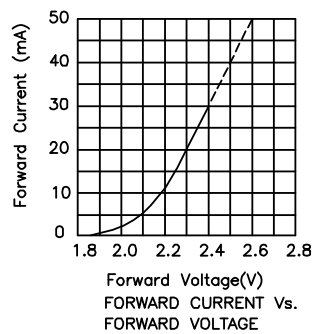
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



RELATIVE INTENSITY Vs. WAVELENGTH

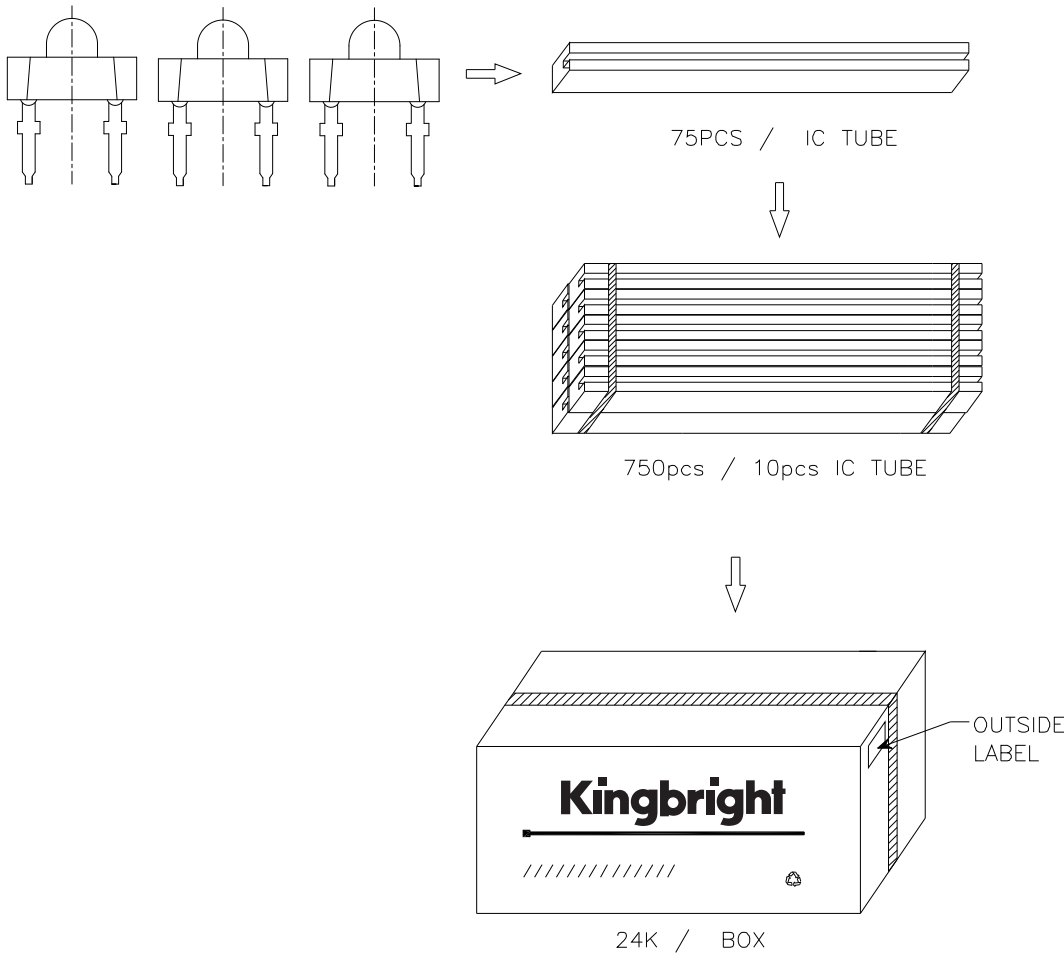
Super Bright Yellow

WP76761CSYC/J



PACKING & LABEL SPECIFICATIONS

WP76761CSYC/J



Kingbright	
Q.C.	
TYPE NO : WP76761Cxxx	
QUANTITY : 750 pcs	
S/N : XXX	CODE: XX
LOT NO : 	
RoHS Compliant	