

PRELIMINARY SPEC

Part Number: WP5603SYDL/SD/J

SUPER BRIGHT YELLOW

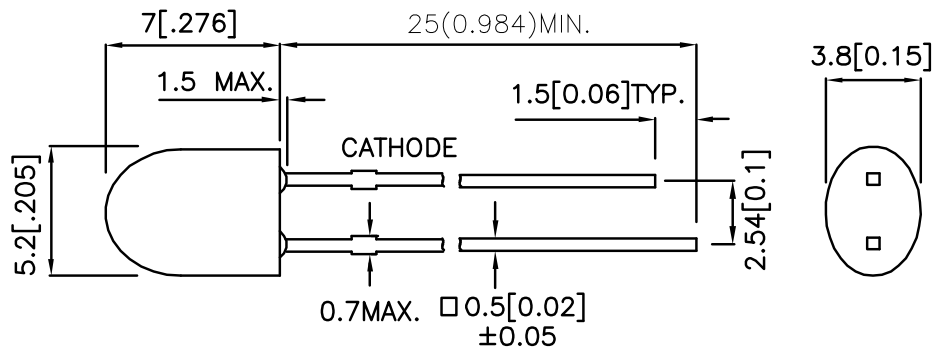
Features

- OUTSTNDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- I.C. COMPATIBLE/LOW CURRENT CAPABILITY.
- 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		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-5603SYDL/SD-J	SUPER BRIGHT YELLOW (AlGaInP)	YELLOW SEMI DIFFUSED	380	980	100°(H) 50°(V)

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous Intensity / Luminous Flux: +/-15%.

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
Δλ _{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:

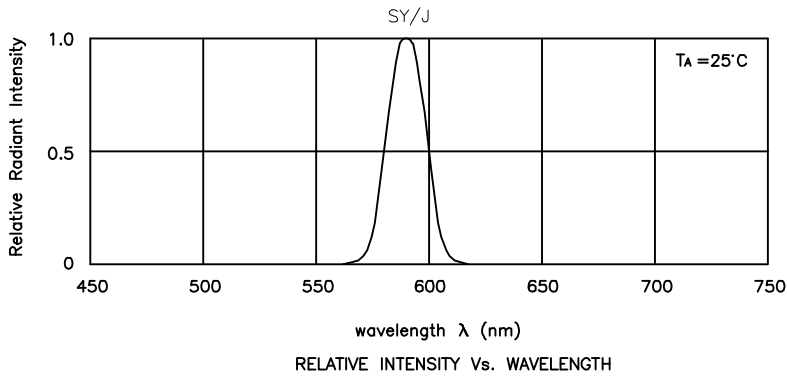
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at T_A=25°C

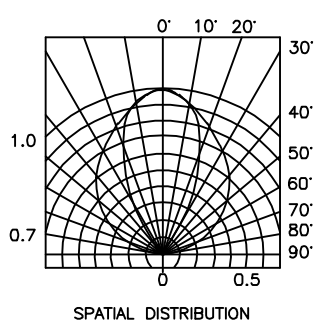
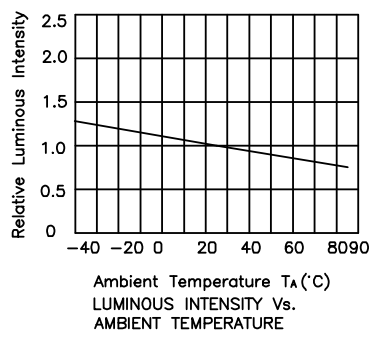
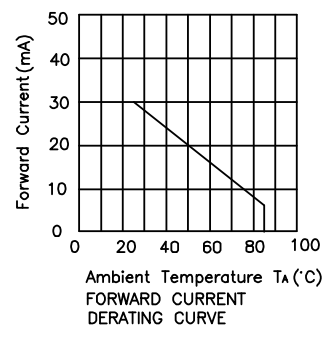
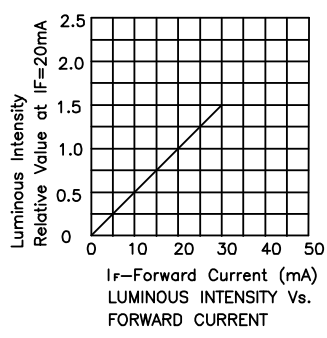
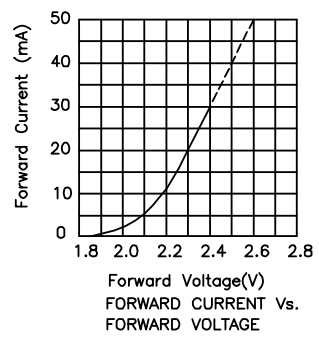
Parameter	Super Bright Yellow	Units
Power dissipation	84	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

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

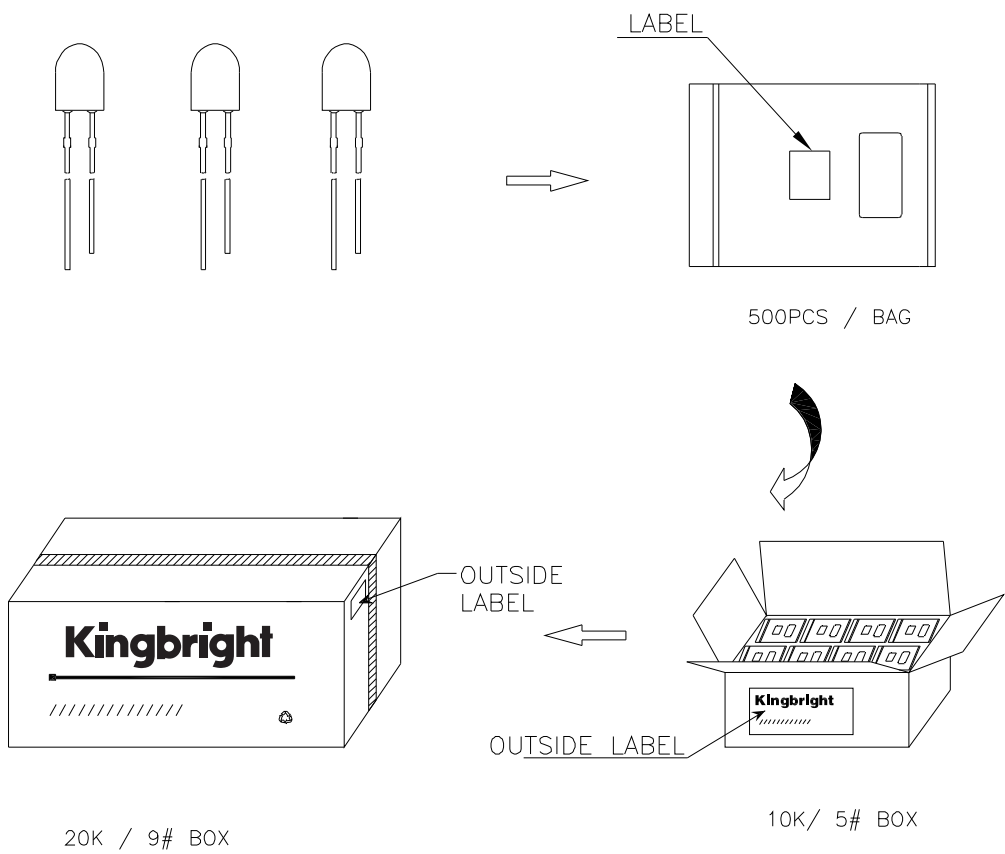


Super Bright Yellow L-5603SYDL/SD-J



PACKING & LABEL SPECIFICATIONS

WP5603SYDL/SD/J



Kingbright	
Q.C.	
TYPE NO : WP5603XXX	QC xxx xx. xxxx PASSED Date
QUANTITY : 500 pcs	
S/N : xxx	CODE: XX
LOT NO:  xxxxxxxxxx	
RoHS Compliant	