

PRELIMINARY SPEC

Part Number: WP5603SIDL/SD/J

HYPER ORANGE

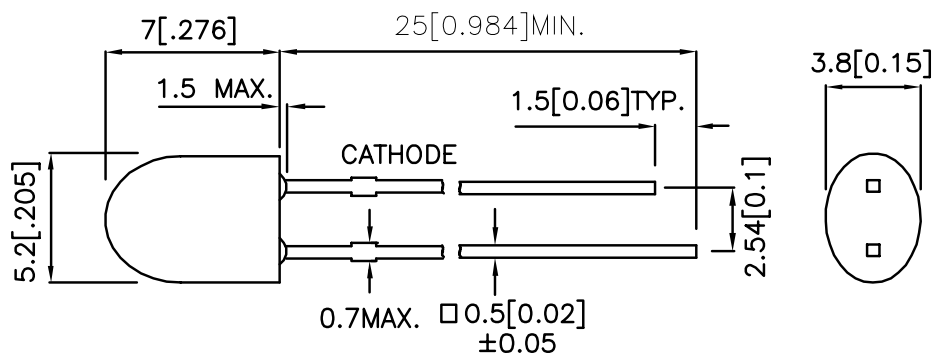
Features

- OUTSTANDING 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 $\pm 0.25(0.01)$ 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
WP5603SIDL/SD/J	HYPER ORANGE (AlGaInP)	RED SEMI DIFFUSED	1800	3600	100°(H) 50°(V)

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/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Orange	640		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Hyper Orange	630		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Orange	25		nm	I _F =20mA
C	Capacitance	Hyper Orange	27		pF	V _F =0V; f=1MHz
V _F [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	I _F =20mA
I _R	Reverse Current	Hyper Orange		10	uA	V _R = 5V

Notes:

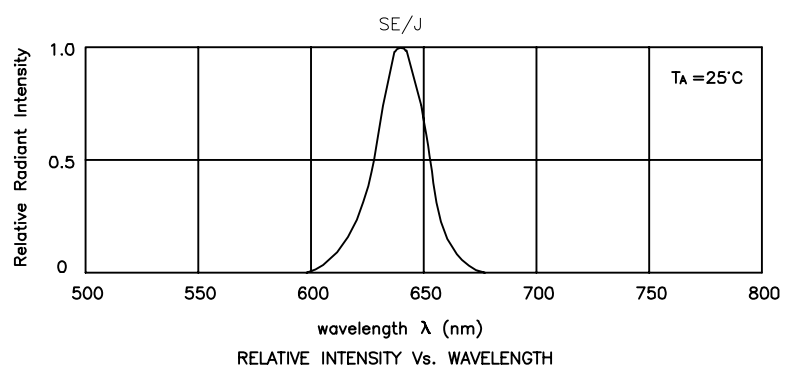
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at T_A=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	

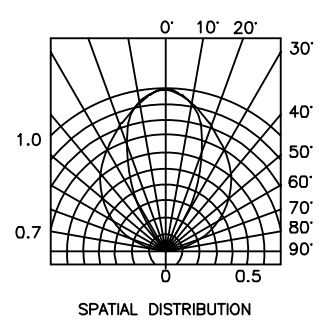
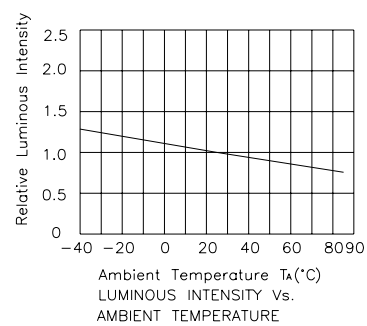
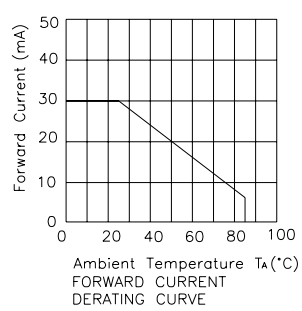
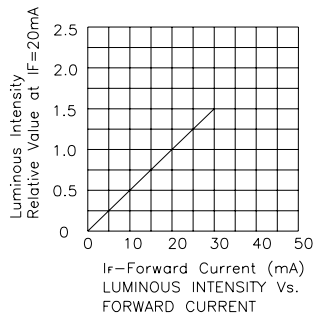
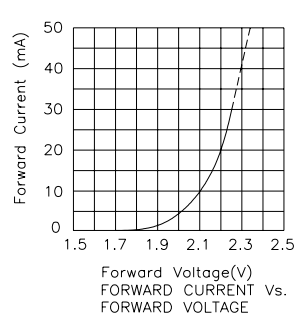
Notes:

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



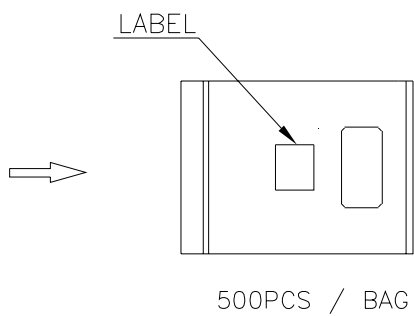
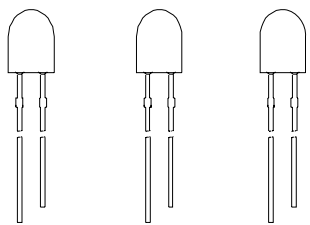
Hyper Orange

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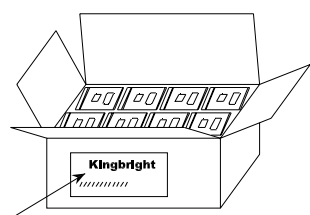
PACKING & LABEL SPECIFICATIONS

WP5603SIDL/SD/J




20K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL

10K / 5# BOX

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