

PRELIMINARY SPEC

Part Number: WP9294SEC/J3

Hyper Orange

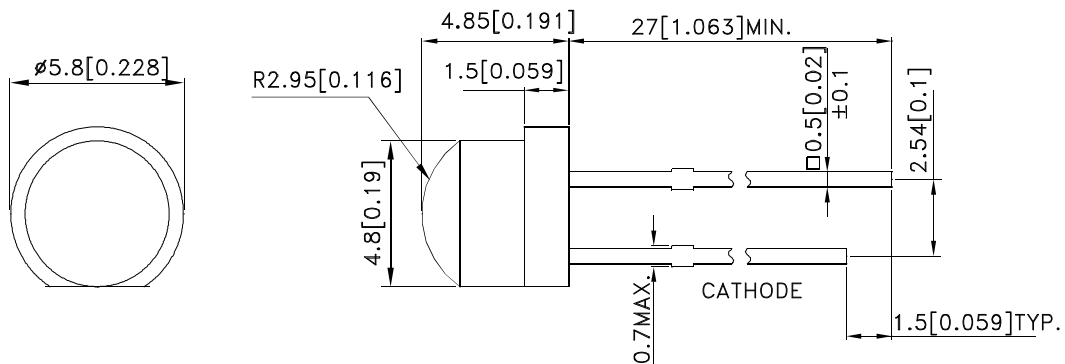
### Features

- High luminous white emission
- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life - solid state reliability.
- RoHS compliant.

### Description

The Hyper Orange device is based on light emitting diode chip made from AlInGaP.

### 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
WP9294SEC/J3	Hyper Orange (AlInGaP)	WATER CLEAR	650	1600	130°

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 TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Hyper Orange	640		nm	I <sub>F</sub> =20mA
λ <sub>D</sub> [1]	Dominant Wavelength	Hyper Orange	630		nm	I <sub>F</sub> =20mA
Δλ <sub>1/2</sub>	Spectral Line Half-width	Hyper Orange	25		nm	I <sub>F</sub> =20mA
C	Capacitance	Hyper Orange	27		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Hyper Orange		10	uA	V <sub>R</sub> = 5V

Notes:

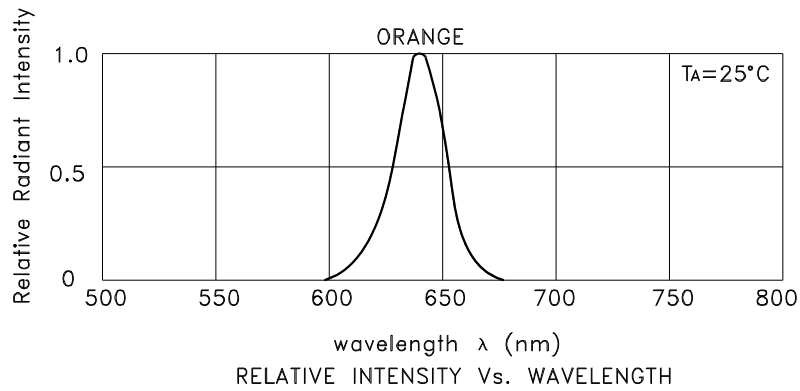
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## 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]	260°C For 5 Seconds	

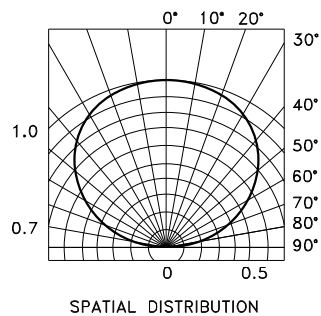
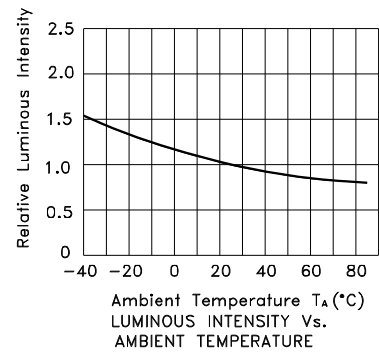
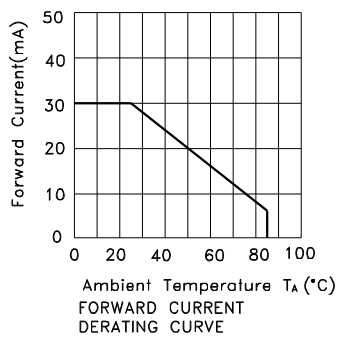
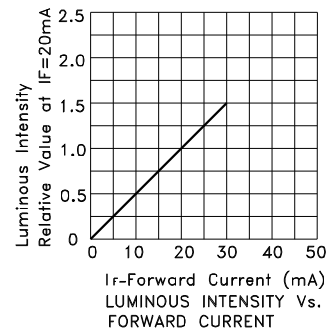
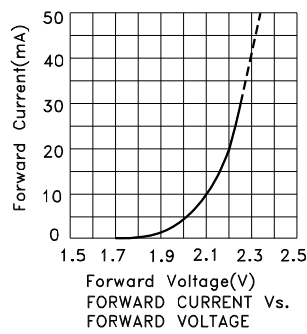
Notes:

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



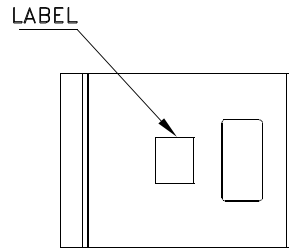
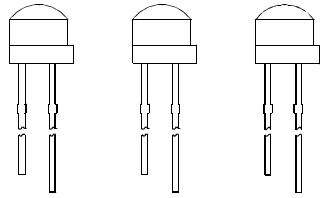
## Hyper Orange

### WP9294SEC/J3



**PACKING & LABEL SPECIFICATIONS**

**WP9294SEC/J3**

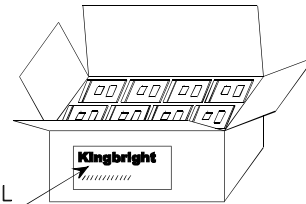


500 PCS / BAG



20K/BOX

OUTSIDE LABEL



OUTSIDE LABEL

10K/BOX

<h1 style="margin: 0;">Kingbright</h1>	
P/NO: WP9294xxx	
QTY: 500 pcs	Q.C. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Q C XX XX XXXX PASSED</span>
S/N: XXXX	
CODE: XXX	
LOT NO:	
XXXXXXXXXXXXX	
RoHS Compliant	