

PRELIMINARY SPEC

Part Number: WP1533AA/YD14V-W152 Yellow

### Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE / LOW CURRENT CAPABILITY.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- 14V INTERNAL RESISTOR.
- RoHS COMPLIANT.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

### Package Dimensions

Fig.1 :

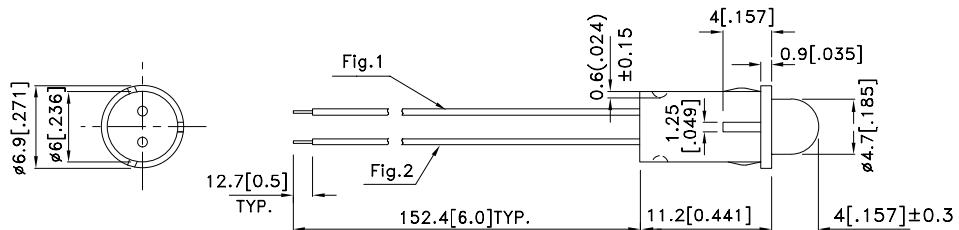
ANODE LEAD :RED INSULATION LEAD ,24 AWG ,UL#1007,∅1.45mm,  
TIN OVERCOAT WIRE ,STRIP 12.7mm.

Fig. 2 :

CATHODE LEAD :BLACK INSULATION LEAD ,24 AWG,UL#1007 ,∅1.45mm,  
TIN OVERCOAT WIRE ,STRIP 12.7mm.

Fig.3 :

STAKING TO FIX THE HOLDER AND LED .



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] V= 14V		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP1533AA/YD14V-W152	Yellow (GaAsP/GaP)	YELLOW DIFFUSED	5	20	60°

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
$\lambda_{peak}$	Peak Wavelength	Yellow	590		nm	V <sub>F</sub> =14V
$\lambda_D$ [1]	Dominant Wavelength	Yellow	588		nm	V <sub>F</sub> =14V
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35		nm	V <sub>F</sub> =14V
I <sub>F</sub>	Forward Current	Yellow	10.5	13.5	mA	V <sub>F</sub> =14V
I <sub>R</sub>	Reverse Current	Yellow		10	uA	V <sub>R</sub> = 5V

Note:

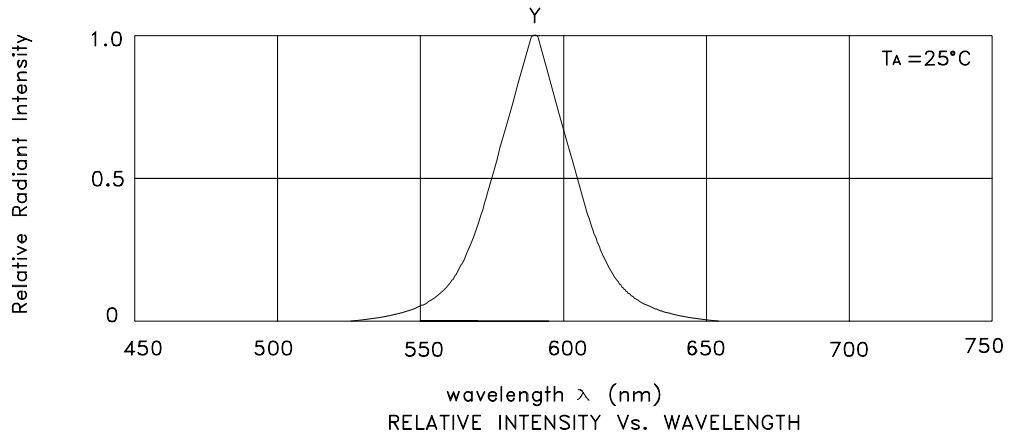
- 1.Wavelength: +/-1nm.

## Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units
Power dissipation	160	mW
Forward Voltage	16	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [1]	260°C For 3 Seconds	
Lead Solder Temperature [2]	260°C For 5 Seconds	

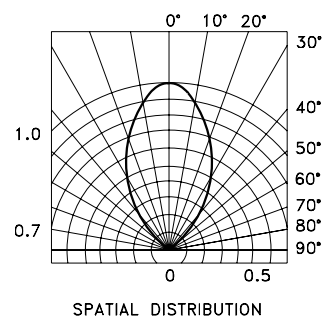
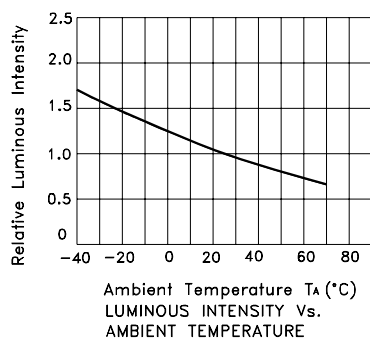
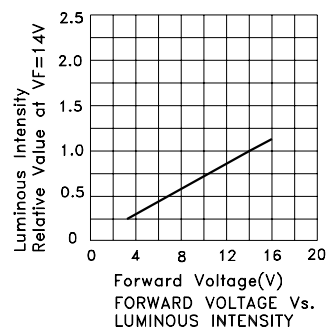
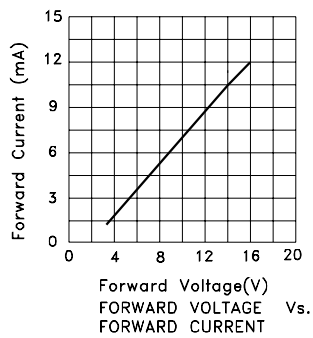
Notes:

1. 2mm below package base.
2. 5mm below package base.



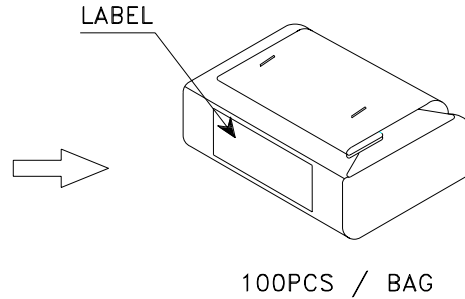
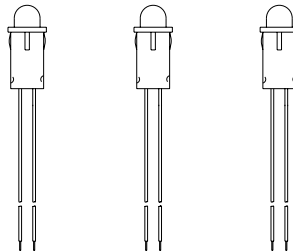
Yellow

WP1533AA/YD14V-W152



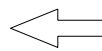
**PACKING & LABEL SPECIFICATIONS**

**WP1533AA/YD14V-W152**

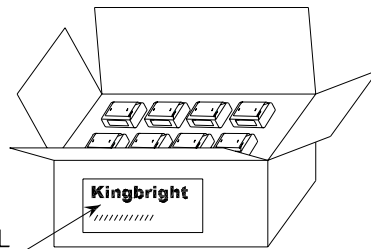


4K / 9# BOX


OUTSIDE LABEL



OUTSIDE LABEL



2K / 5# BOX

<b>Kingbright</b>				
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QC				
XX XX XX				
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TYPE NO : WP1533AAxxx				
QUANTITY : 100 pcs				
S/N : XX	CODE: XX			
LOT NO :  <small>xx-xxxx</small>				
RoHS Compliant				