

Part Number: WP1533AA/YD-W152

Yellow

### Features

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

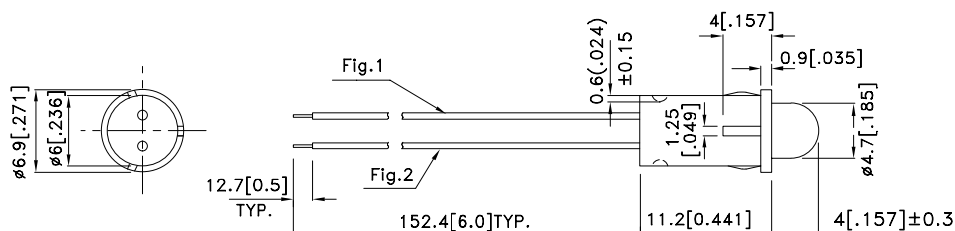
ANODE LEAD :RED INSULATION LEAD ,24 AWG ,UL#1007,Ø1.45mm,  
TIN OVERCOAT WIRE ,STRIP 12.7mm.

Fig. 2 :

CATHODE LEAD :BLACK INSULATION LEAD ,24 AWG,UL#1007 ,Ø1.45mm,  
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] @ 10mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP1533AA/YD-W152	Yellow (GaAsP/GaP)	YELLOW DIFFUSED	5	18	60°

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 TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Yellow	590		nm	I <sub>F</sub> =10mA
$\lambda_D$ [1]	Dominant Wavelength	Yellow	588		nm	I <sub>F</sub> =10mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow	35		nm	I <sub>F</sub> =10mA
C	Capacitance	Yellow	20		pF	V <sub>F</sub> =0V; f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Yellow	1.95	2.5	V	I <sub>F</sub> =10mA
I <sub>R</sub>	Reverse Current	Yellow		10	uA	V <sub>R</sub> = 5V

Notes:

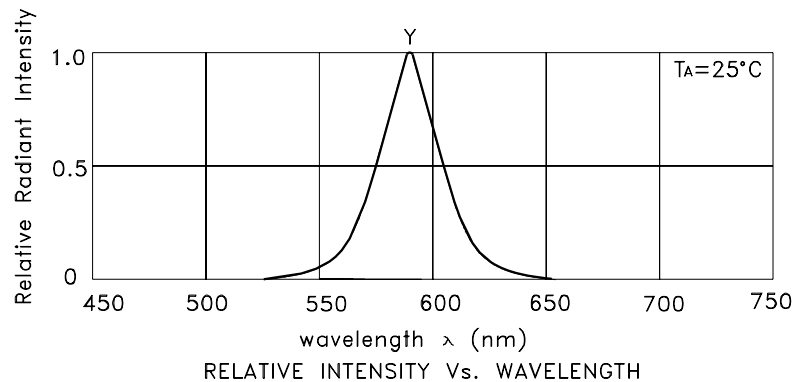
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units
Power dissipation	75	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	

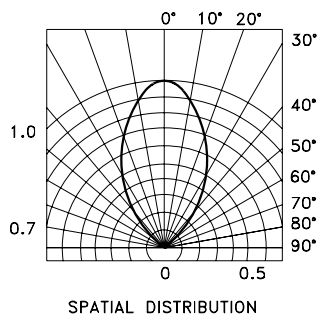
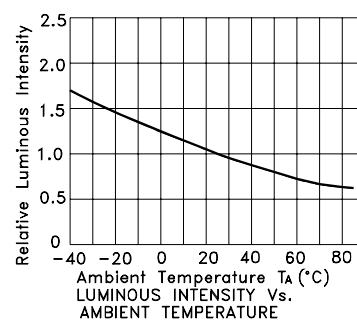
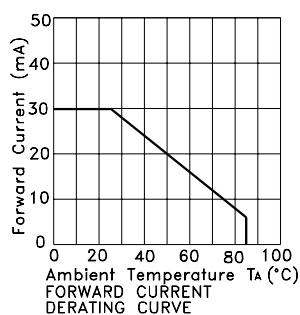
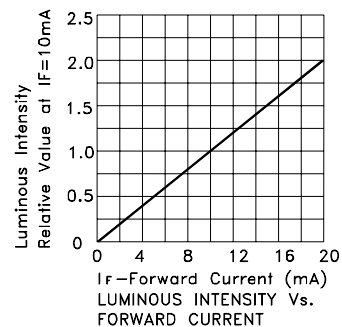
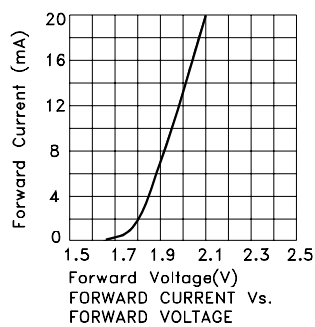
Notes:

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



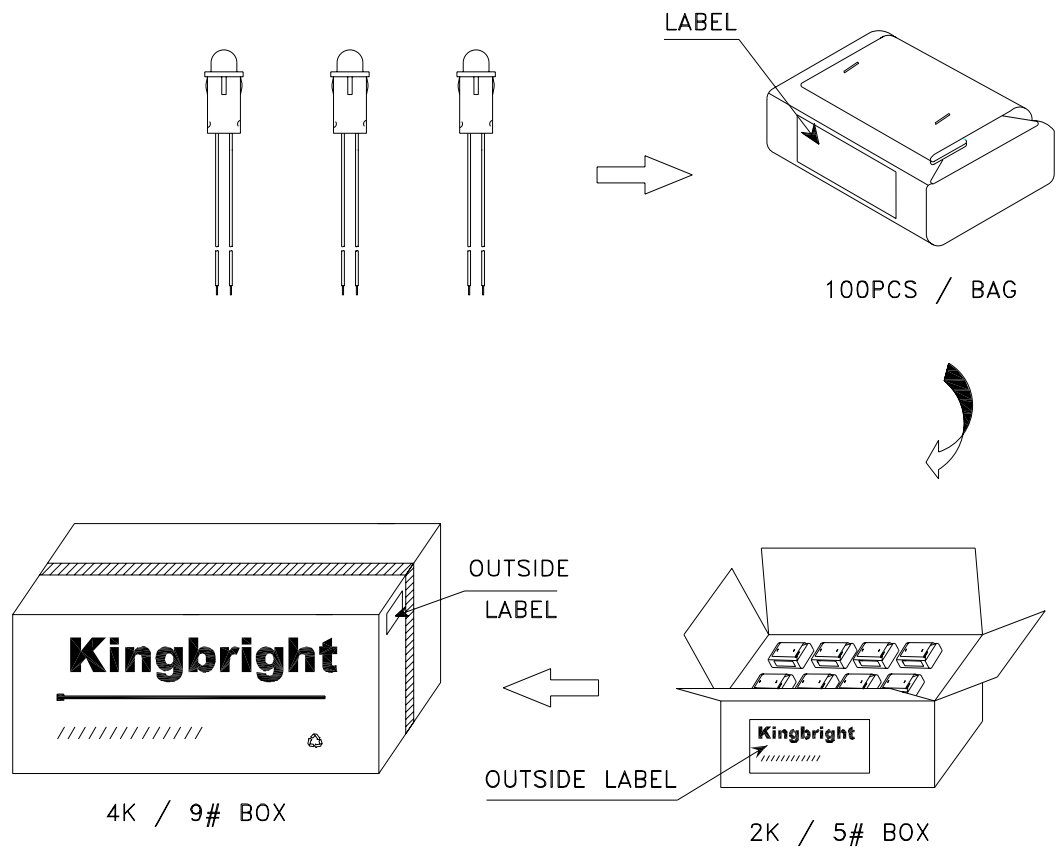
Yellow


WP1533AA/YD-W152



## PACKING & LABEL SPECIFICATIONS

WP1533AA/YD-W152



<b>Kingbright</b>	
Q.C.	
TYPE NO : WP1533AAxxx	
QUANTITY : 100 pcs	
S/N : XX	CODE: XX
LOT NO : 	
MADE IN CHINA	
RoHS Compliant	