



## Wah Wang Data Sheet for 5mm Super Bright Amber Yellow LED

5A3 Series

Angle: 15°

Class: P

Part No: WW05A3AYP4-N



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**S.D.N. or D.N. No.** : \_\_\_\_\_

**Customer Name** : \_\_\_\_\_

**Sample Approval Signature** : \_\_\_\_\_

**Date** : \_\_\_\_\_



## Wah Wang Data Sheet For 5mm Super Bright Amber Yellow LED – 5A3 Series Angle 15° Class: P

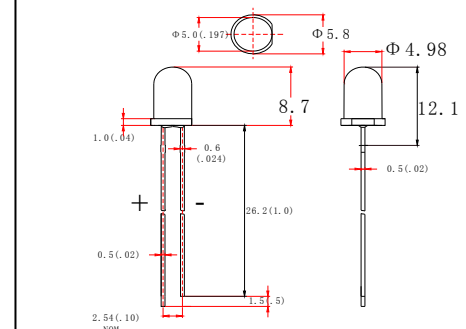
### Features

- Standard T-1 Diameter Type Package.
- General Purpose Leads
- Reliable and Rugged

### Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (≤ 1/10 Duty Cycle, 0.1ms Pulse Wide)	100	mA
Continuous Forward Current	20	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [3mm(From solder joint to epoxy body)]	260°C for 3 Seconds	

### Package Dimensions



the LED chip was in reverse polarity, which is different from normal LED, please check the polarity of the LED before production. And please be noted that BIGGER side of the LED is "+ve"

### Electrical Optical Characteristics at Ta=25°C

Part Number	Lens color	Source Color	Dominant Wavelength $\lambda_d$ / nm $I_F = 20\text{mA}$ (Note8)			Luminous Intensity $I_v$ / mcd $I_F = 20\text{mA}$ (Note 5)			Forward Voltage / V $I_F = 20\text{mA}$			Viewing Angle / Deg (Note 6)
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
WW05A3AYP4-N	Water Clear	Amber Yellow	585	590	595	10600	13800	---	1.8	---	2.4	15°
Reverse Voltage = 5V						Reverse Current ≤ 5μA						

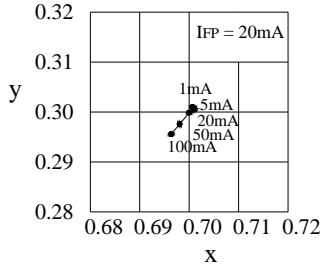
### Notes:

1. All dimensions are in millimeter.
2. Tolerance of measurement is  $\pm 0.25\text{mm}(0.01")$  unless others otherwise noted.
3. Protruded resin under flanges is  $1.0\text{mm}(0.4")$  max.
4. Lead spacing is measured where the leads emerge from the package.
5. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of measurement of luminous intensity is  $\pm 15\%$
6.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity. It use many parameters that correspond to the CIE 1931 2° Tolerance of measurement of angle is  $\pm 5$  degree
7. Caution in ESD: Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
8. The dominant wavelength  $\lambda_d$  is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
9. Specifications are subject to change without notice.

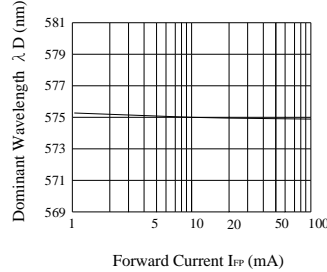


## Typical Characteristic for Super Bright Amber Yellow LED

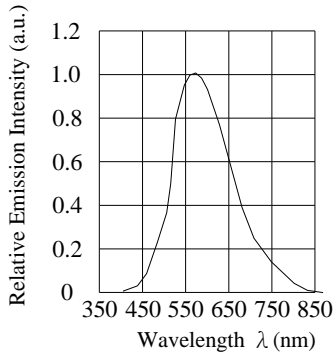
Forward Current vs. Chromaticity Coordinate ( $\lambda D$ )



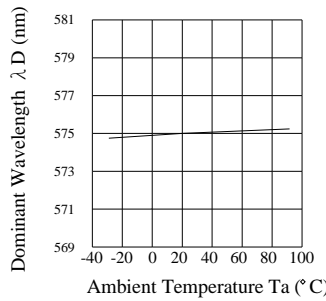
Forward Current vs. Dominant Wavelength



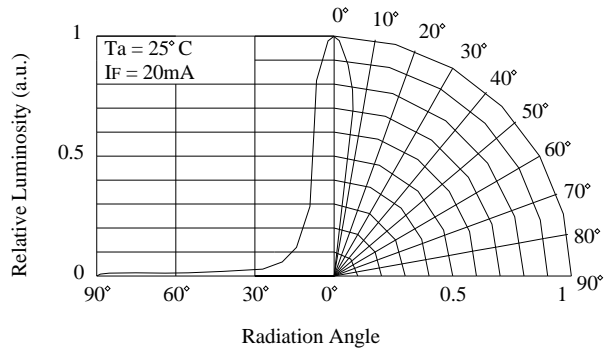
Spectrum



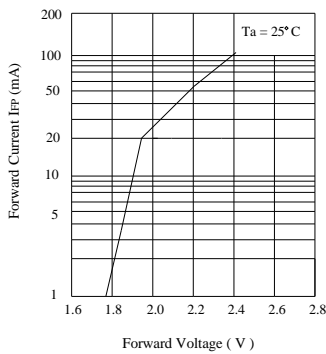
Ambient Temperature vs. Dominant Wavelength



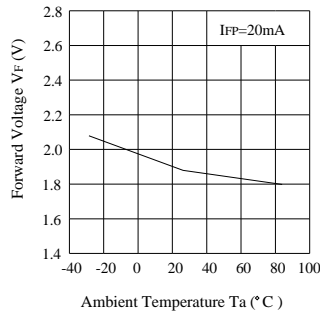
Directivity (Angle : 15°)



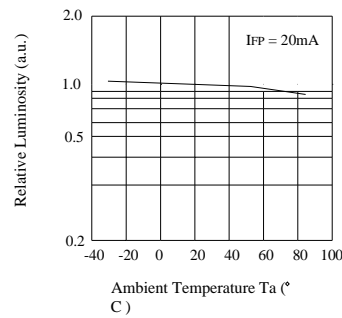
Forward Voltage vs. Forward Current



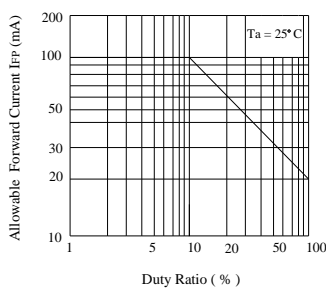
Ambient Temperature vs. Forward Voltage



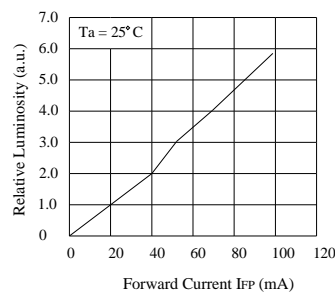
Ambient Temperature vs. Relative Luminosity



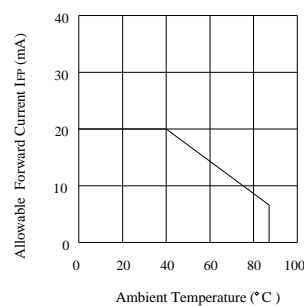
Duty Ratio vs. Allowable Forward Current



Forward Current vs. Relative Luminosity



Ambient Temperature vs. Allowable Forward Current



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