



Wah Wang Data Sheet for 5mm UV LED

5A3 Series

Angle: 30°

Class: E

Part No: WW05A3SPE4-B

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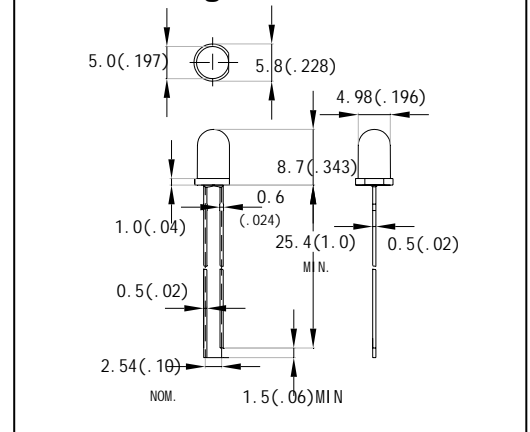
Features

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

Absolute Maximum Ratings at Ta=25

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
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 3 Seconds	

Package Dimensions



Electrical Optical Characteristics at Ta=25°C

Part Number	Lens color	Source Color	Dominant Wavelength λ_d / nm $I_F = 20\text{mA}$ (Note8)			Forward Voltage / V $I_F = 20\text{mA}$			Viewing Angle / Deg (Note 6)
			Min.	Typ.	Max.	Min.	Typ.	Max.	
WW05A3SPE4-B	Water Clear	UV	400	---	410	---	3.5	4.5	30 °
Reverse Voltage = 5V						Reverse Current = 50 μ A			

Notes:

1. All dimensions are in millimeter.
2. Tolerance of measurement is $\pm 0.25\text{mm}(.01")$ 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 ± 2.5 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 λ_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.