

### **UV LED LAMP**

# VAOL-3GUV0Y4

# Package Dimension



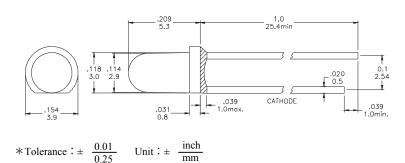
- Low Power Consumption
- I.C. compatible

### **Applications**

- Disinfection and Sterilization
- Adhesive Curing
- Leak Detection
- Authentication

### Description

- These LEDs are Based on InGaN Material Technology
- Emitted color: Purple (UV)
- Water Transparent Lens



### A CAUTION : EMITS ULTRAVIOLET RADIATION!!!



 This UV (ultraviolet) LED during operation radiates intense UV light.
Do Nat look diredly into the UV light during operation of device. This can be harmful to the human body especi to the eyes and skin, even for brief period due to the intense UV light.
If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
If the UV LED in your product might be viewed diredly, please affix a coution label to your product to that effect.
Avoid direct eye and skin exposure to the UV light.

#### Keep reach out of children

# Absolute Maximum Ratings at Ta=25°C

Symbol	Parameter	Unit					
PD	Power Dissipation	120	mW				
VR	Reverse Voltage	5	V				
IAF	Average Forward Current	30	mA				
IPF	Peak Forward Current (Duty=0.1, 1kHz)	100	mA				
	Derating Linear Form 25°C	0.4	mA/°C				
Topr	Operating Temperature Range	-20  to + 80	°C				
Tstg	Storage Temperature Range	-20  to + 100	°C				
Lead	Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.						

## Electrical / Optical Characteristics and Curves at Ta=25°C

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF = 20  mA	2.8	3.0	3.6	V
IR	Reverse Current	VR = 5 V			100	μΑ
Δθ	Half Intensity Angle	IF = 20  mA		30		Deg.
IV	Luminous Intensity	IF = 20  mA		120		mcd.
λp	Peak Wavelength	IF = 20  mA	400	405		nm





Liettitear Gharacteristics at 1a 25 0								
Symbol	Iv		VF		λp			
Parameter	Luminous Intensity		Forward Voltage		Peak Wavelength			
Condition	I	IF=20mA		IF=20mA		IF=20mA		
Unit		mcd	V		nm			
	Grade	Range	Grade	Range	Grade	Range		
	BIN 9	90~125	P0	2.8~3.0	U6	400~405		
	BIN 10	125~175	P1	3.0~3.2	U7	405~410		
Binning			P2	3.2~3.4				
			Р3	3.4~3.6				

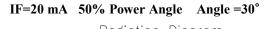
# Electrical Characteristics at Ta=25°C

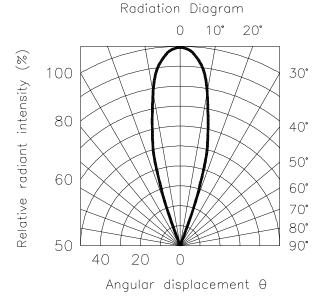
lighting:theway

Intensity: Tolerance of minimum and maximum =  $\pm 15\%$  Vf: Tolerance of minimum and maximum =  $\pm 0.05v$  NOTE:

1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.

## **Radiation Diagram**



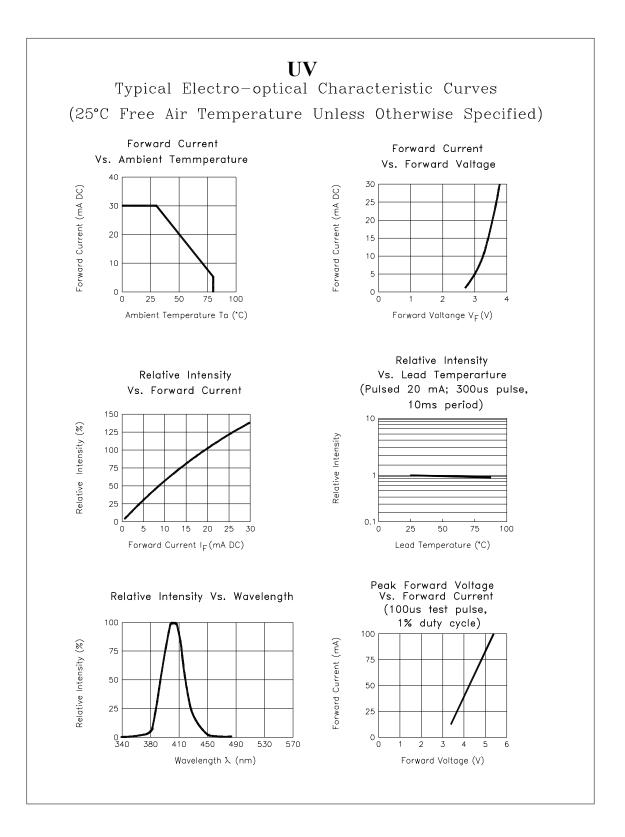


190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301



OPTOELECTRONICS





199 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301



