

### **UV LED LAMP**

# VAOL-3EUVOY4

# Package Dimension

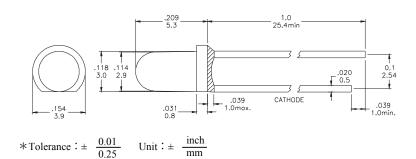
- Feature
- ← Low Power Consumption
- $\leftarrow$  I.C. compatible

### 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.
to Not look directly into the UV light during operation of device. This can be harmful to the human body especie to the eyes and skin, even for brief period due to the intense UV light.
if viewing the UV light is in necessary, please use UV litered glasses to avoid damage by the UV light.
if the UV LED in your product might be viewed directly, please affix a caution 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	Max.	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 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		15		Deg.
IV	Luminous Intensity	IF = 20  mA		150		mcd.
λp	Peak Wavelength	IF = 20  mA	400	405		nm





Symbol	Iv		$V_{\rm F}$		λp				
Parameter	Luminous Intensity		Forward Voltage		Peak Wavelength				
Condition	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					

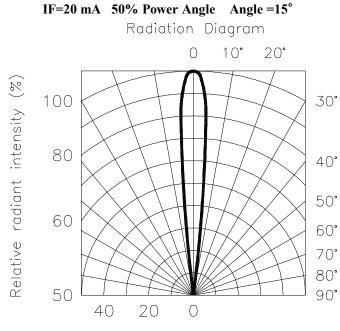
# Electrical Characteristics at Ta=25°C

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**



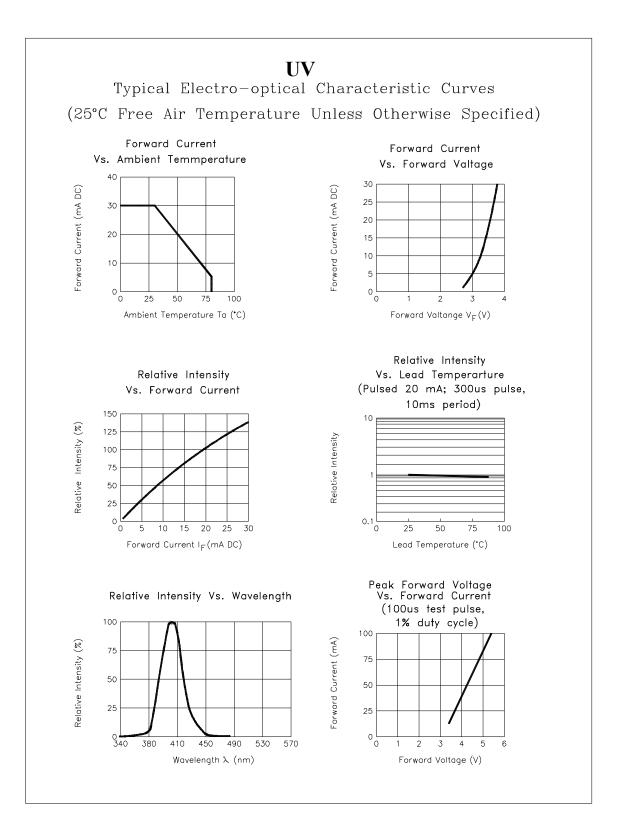
Angular displacement –0

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