# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

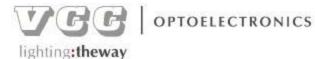
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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## **UV LED LAMP**

# VAOL-5GUV8T4

#### Feature

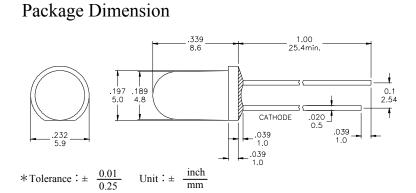
- Low Power Consumption
- I.C. compatible

#### 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) EED during operation radiates intense UV light.
Do Not look directly into the UV light during operation of device. This can be harmful to the human body especial
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 viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
If the UV LED in your poduct might be viewed interly, please office 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

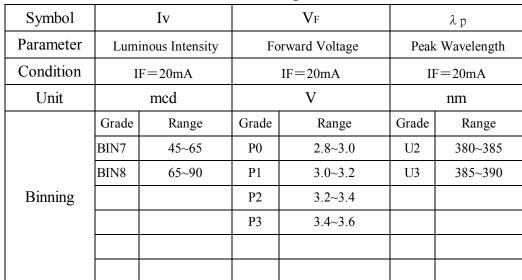
Symbol	Parameter	Max.	Unit			
PD	Power Dissipation	120	mW			
VR	Reverse Voltage	5	V			
IAF	Average Forward Current	30	mA			
IPF	Peak Forward Current (Duty=0.1, 1kHz)	100	mA			
	Derating Linear Form 25°C	0.4	mA/°C			
Topr	Operating Temperature Range	-20  to  + 80	°C			
Tstg	Storage Temperature Range	-20  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			50	μΑ
Δθ	Half Intensity Angle	IF = 20  mA		30		Deg.
IV	Luminous Intensity	IF = 20  mA		80		mcd.
λp	Peak Wavelength	IF = $20 \text{ mA}$	380	385		nm







# Electrical Characteristics at Ta=25°C

Intensity: Tolerance of minimum and maximum =  $\pm 15\%$ 

Vf: Tolerance of minimum and maximum =  $\pm 0.05v$ 

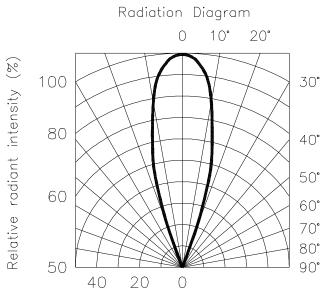
NOTE:

lighting:theway

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**

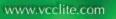
IF=20 mA 50% Power Angle Angle =30°



Angular displacement  $\Theta$ 

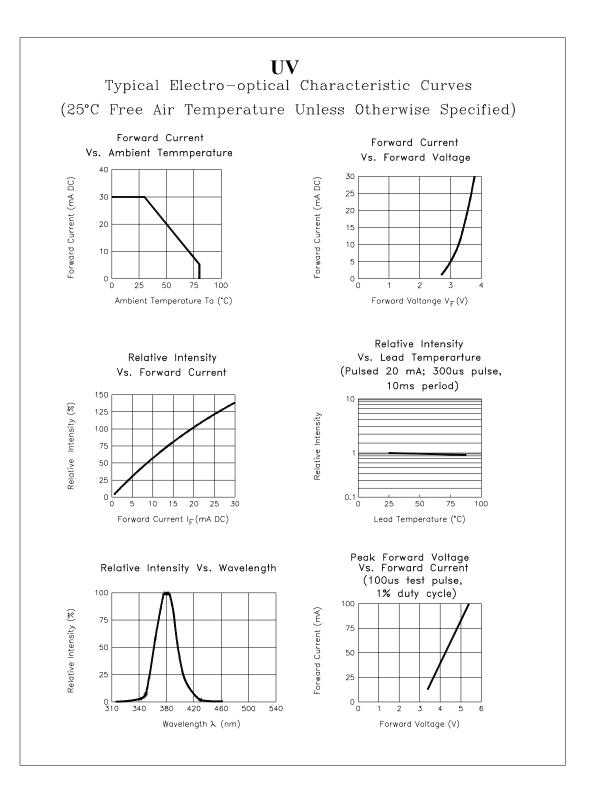
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