

UV LED LAMP

VAOL-3EUV8Y4

Feature

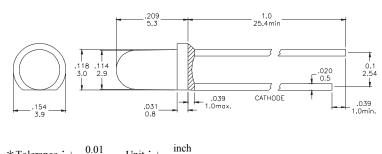
- Low Power Consumption
- I.C. compatible

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



*Tolerance : $\pm \frac{0.01}{0.25}$ Unit : \pm

Package Dimension

A CAUTION : EMITS ULTRAVIOLET RADIATION!!!

mm



This UV (ultraviolet) LED during operation radiates intense UV light.
Da Nat look directly into the UV light during operation of device. This can be harmful to the human body especia 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.
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		72		mcd.
λp	Peak Wavelength	IF = 20 mA	380	385		nm





Symbol		Iv	VF		λρ	
Parameter	Luminous Intensity		Forward Voltage		Peak Wavelength	
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit		mcd	V		nm	
	Grade	Range	Grade	Range	Grade	Range
	BIN7	45~65	PO	2.8~3.0	U2	380~385
	BIN8	65~90	P1	3.0~3.2	U3	385~390
Binning			P2	3.2~3.4		
			Р3	3.4~3.6		

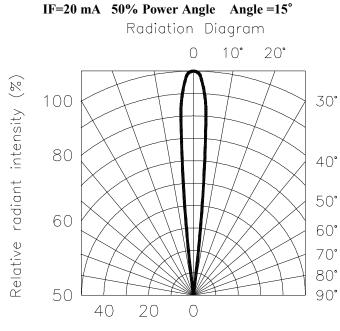
Electrical Characteristics at Ta=25°C

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



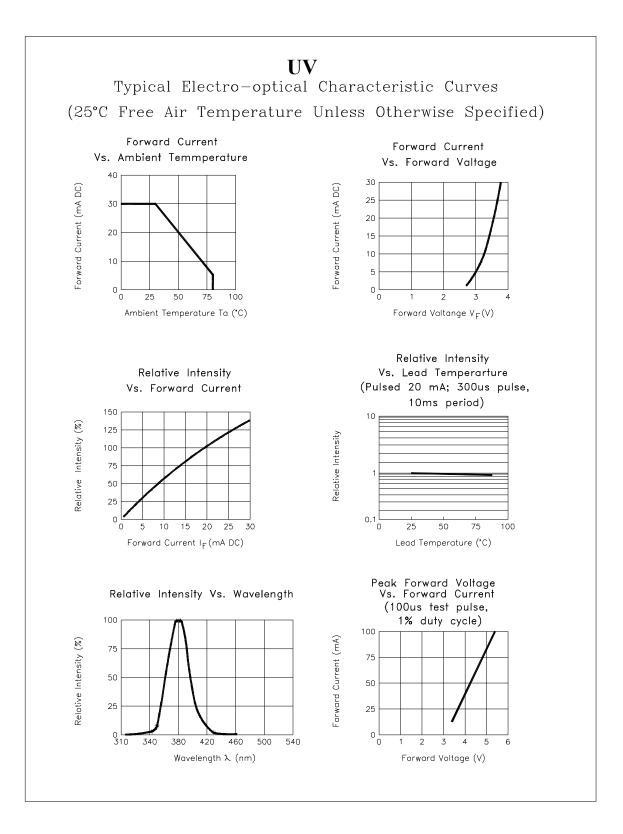
Angular displacement –0

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