

UV LED LAMP

VAOL-5EUV0T4

Feature

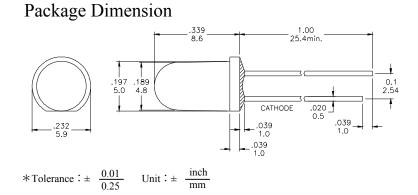
- Low Power Consumption
- I.C. compatible

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 (uhraviolet) ED 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 especies to the eyes and sin, 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 ED in your product might be viewed directly, please affix a caution label to your product to that effect.
Avoid direct eye and sink 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 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	10	15	20	Deg.
IV	Luminous Intensity	IF = 20 mA		200		mcd.
λp	Peak Wavelength	IF = 20 mA	400	405		nm





Symbol	Iv		VF		λp			
Parameter	Luminous Intensity		Forward Voltage		Peak Wavelength			
Condition	ition IF=20mA		IF=20mA		IF=20mA			
Unit		mcd	V		nm			
	Grade	Range	Grade	Range	Grade	Range		
	BIN10	125~175	P0	2.8~3.0	U6	400~405		
	BIN11	175~245	P1	3.0~3.2	U7	405~410		
Binning			P2	3.2~3.4				
			Р3	3.4~3.6				

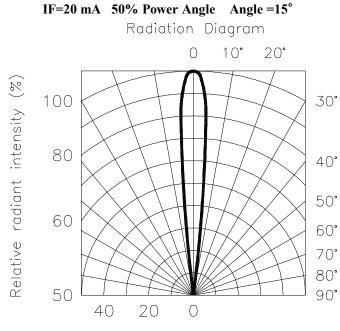
Electrical Characteristics at Ta=25°C

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



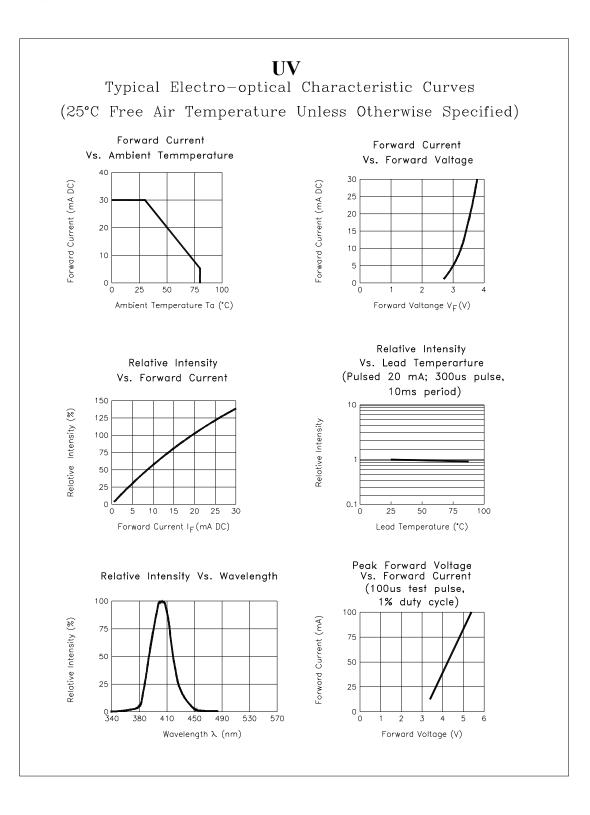
Angular displacement –0

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