

## Feature

- ← Low Power Consumption
- ← I.C. compatible

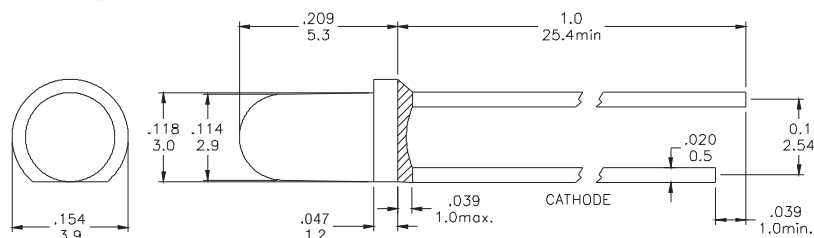
## Applications

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

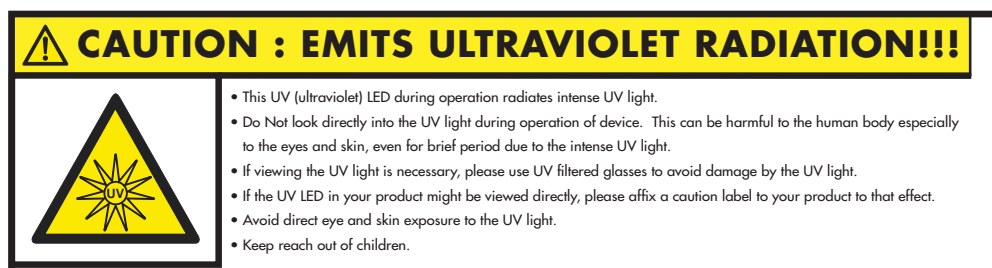
## Description

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

## Package Dimension



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



### 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.	Typ.	Max.	Unit
VF	Forward Voltage	IF= 20 mA	2.8	3.0	3.6	V
IR	Reverse Current	VR= 5 V			100	$\mu$ A
$\Delta \theta$	Half Intensity Angle	IF= 20 mA		30	--	Deg.
IV	Luminous Intensity	IF= 20 mA	--	55	--	mcd.
$\lambda p$	Peak Wavelength	IF= 20 mA	380	385	--	nm

## Electrical Characteristics at Ta=25°C

Symbol	I <sub>v</sub>		V <sub>F</sub>		λ <sub>p</sub>	
Parameter	Luminous Intensity		Forward Voltage		Peak Wavelength	
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
Binning	Grade	Range	Grade	Range	Grade	Range
	BIN6	30~45	P0	2.8~3.0	U2	380~385
	BIN7	45~65	P1	3.0~3.2	U3	385~390
			P2	3.2~3.4		
			P3	3.4~3.6		

Intensity: Tolerance of minimum and maximum = ± 15%

V<sub>f</sub>: Tolerance of minimum and maximum = ± 0.05v

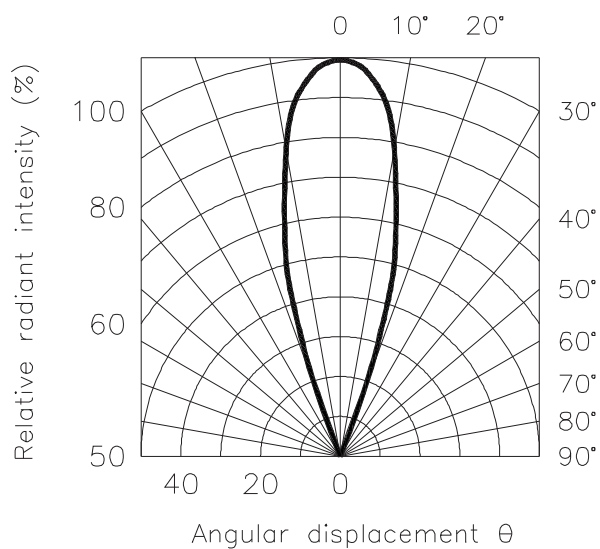
NOTE:

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

**IF=20 mA 50% Power Angle Angle =30°**

Radiation Diagram



## UV

### Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)

