

FoxUV™ 350nm LED 5.5mm Round FG350-R5.5WC015



FEATURES AND APPLICATIONS

- Deep UV wavelength, highly consistent
- HVPE epitaxy process, patent protected, unique in the industry
- UV lamps for medical/biomedical uses, sensors, and scientific applications

SPECIFICATIONS

Absolute Maximum Rating (Ta = 25°C)

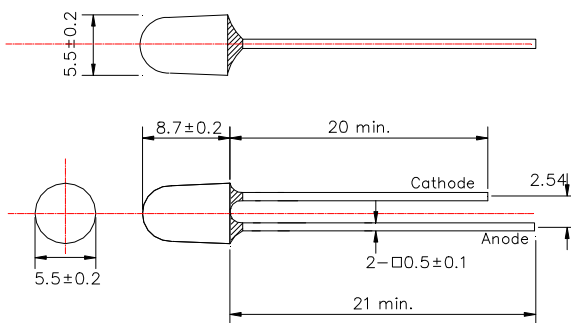
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I_f	30	mA
Pulse Forward Current*	I_{fp}	80	mA
Reverse Voltage	V_r	5	V
Operating Temperature	T_{opr}	-20 to +80	°C
Storage Temperature	T_{stg}	-40 to +100	°C

*Condition: Duty Cycle: 1/10, Pulse Width: 10msec

Optical and Electrical Characteristics (Ta = 25°C)

Item	Symbol	Condition	Min	Typ.	Max	unit
Forward Voltage	V_f	$I_f=20mA$	3.6	4.3	5.5	V
Reverse Current	I_r	$V_r=5V$	-	-	100	μA
Peak Wavelength	λ_p	$I_f=20mA$	350	351	353	nm
Viewing Angle		$I_f=20mA$	-	15	-	deg.
Output Power/Flux	P_o	$I_f=20mA$	100	200	350	μW

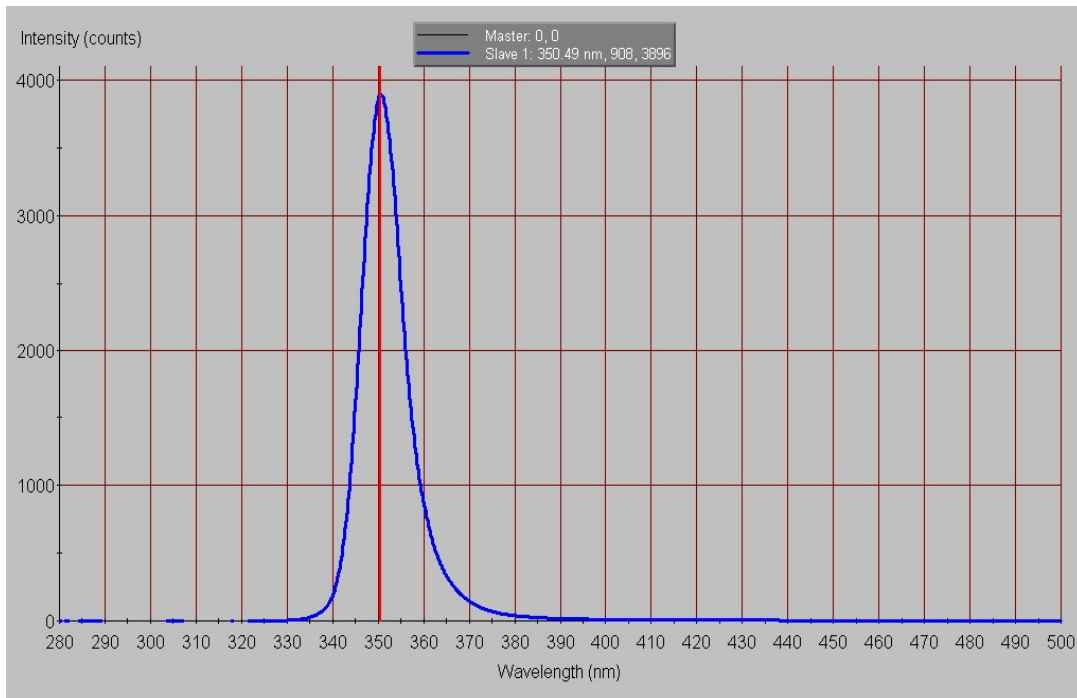
Lamp Dimensions (typical)



- Round lens, 5.5 mm (T-1 3/4 package), UV resistant
- Water clear
- 15 degree viewing angle

Rev. C, Nov. 2012

Typical Spectrum



Warnings and Handling Instructions

- UV LEDs emit intense but mainly invisible ultraviolet radiation when in operation, which may be harmful to eyes, even for brief periods.
- *** DO NOT LOOK DIRECTLY INTO THE UV LED DURING OPERATION ***
- *** BE SURE THAT YOU AND ALL PERSONS IN THE VICINITY WEAR SAFETY GOGGLES THAT PROVIDE SUITABLE UV PROTECTION WHEN A UV LED IS OPERATING ***
- *** KEEP CHILDREN AWAY FROM THE OPERATING VICINITY ***
- *** KEEP UV LEDs OUT OF THE REACH OF CHILDREN ***
- If you incorporate a UV LED into a product, be sure to provide appropriate cautionary labels and instructions.
- Please follow all standard procedures for storing, handling, cleaning, mounting, soldering, disposal, or otherwise handling LED dies or packaged LEDs, including static electricity protection.

Rev. C, Nov. 2012

FG350-3228WC110 350nm PLCC-2

FEATURES AND APPLICATIONS

- Low UV-A wavelength, highly consistent
- HVPE epitaxy process, patent protected, unique in the industry
- UV lamps for industrial curing applications and medical/biomedical uses

SPECIFICATIONS

Absolute Maximum Rating (Ta = 25°C)

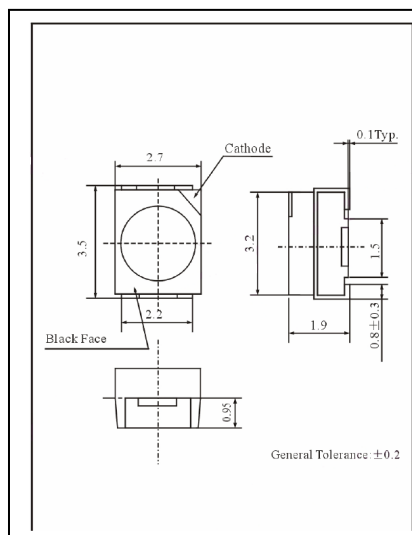
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I _f	30	mA
Pulse Forward Current*	I _{fp}	80	mA
Reverse Voltage	V _r	5	V
Operating Temperature	T _{opr}	-20 to +80	°C
Storage Temperature	T _{stg}	-40 to +100	°C

*Condition: Duty Cycle: 1/10, Pulse Width: 10msec

Optical and Electrical Characteristics (Ta = 25°C)

Item	Symbol	Condition	Min	Typ.	Max	unit
Forward Voltage	V _f	I _f =20mA	3.6	4.3	5.5	V
Reverse Current	I _r	V _r =5V	-	-	100	µA
Peak Wavelength	λ _p	I _f =20mA	350	352	355	nm
Viewing Angle		I _f =20mA	-	120	-	deg.
Output Power/Flux	P _o	I _f =20mA	100	200	350	µW

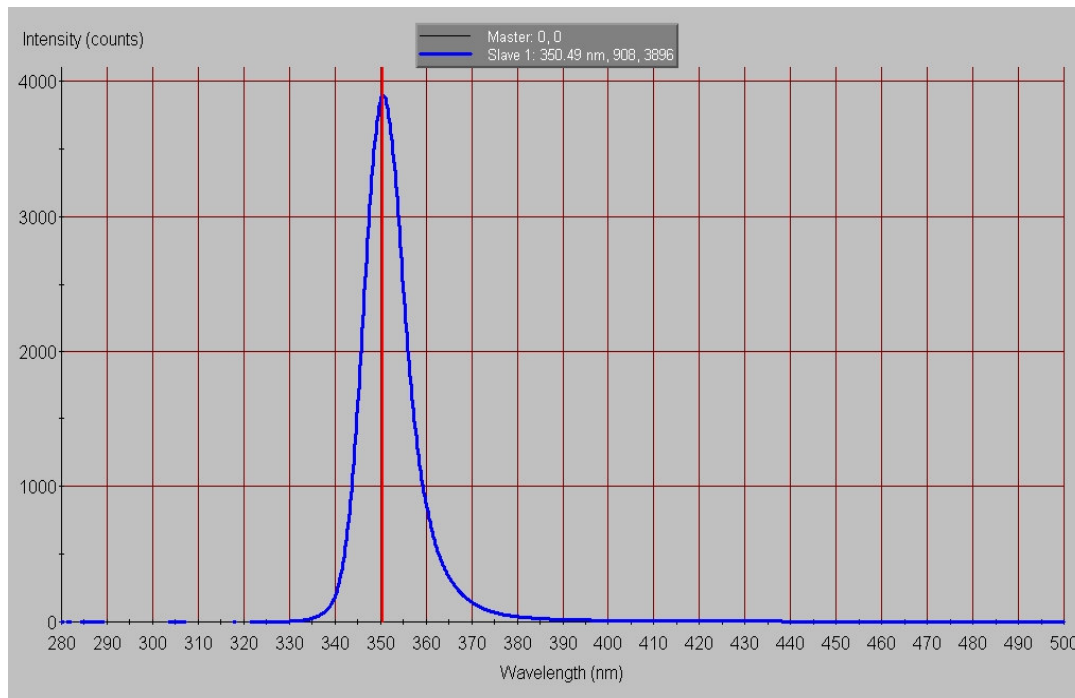
LED Dimensions (typical)



- PLCC-2 mount (also called 3228)
- Epoxy or silicone encapsulant lens
- Surface mount design flexibility and convenience
- Other SMD mounts available – please contact us with your needs

Rev. B, 2012

Typical Spectrum



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Rev. D, 2034