

# FoxUV™ 360nm LED TO-18 Glass Ball Lens FG360-TO18BL010



## FEATURES AND APPLICATIONS

- Low UVA 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)

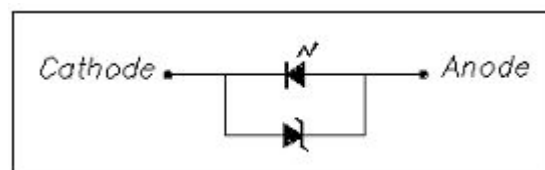
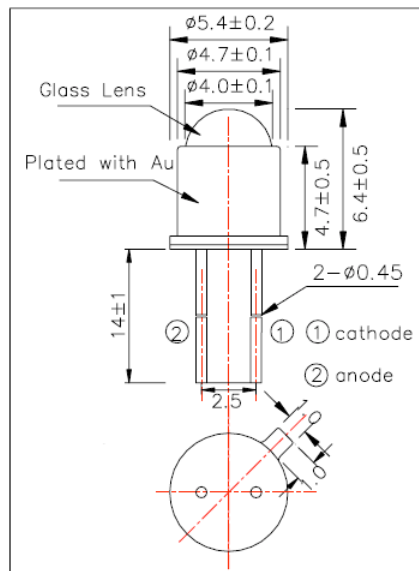
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I <sub>f</sub>	30	mA
Pulse Forward Current*	I <sub>fp</sub>	80	mA
Reverse Current	I <sub>Rz</sub>	200	mA
Operating Temperature	T <sub>opr</sub>	-20 to +80	°C
Storage Temperature	T <sub>stg</sub>	-40 to +100	°C

\*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 <sub>f</sub>	I <sub>f</sub> =20mA	3.6	4.3	5.0	V
Reverse Voltage	V <sub>Rz</sub>	I <sub>R</sub> =5mA	0.7	0.9	1.5	V
Peak Wavelength	λ <sub>p</sub>	I <sub>f</sub> =20mA	360	361	363	nm
Viewing Angle		I <sub>f</sub> =20mA	-	10	-	deg.
Output Power/Flux	P <sub>o</sub>	I <sub>f</sub> =20mA	200	400	700	μW

### LED Dimensions (typical)



- TO-18 stem type mount
- Glass ball lens
- 5° viewing half angle
- Covered and hermetically sealed
- Zener diode protection

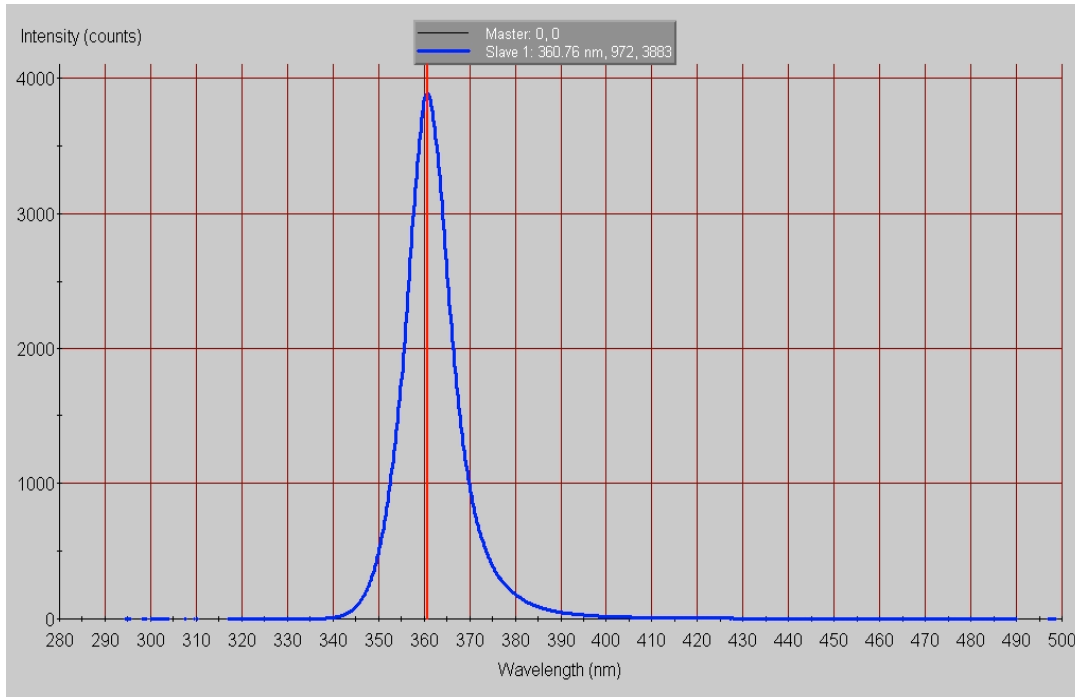
Rev. D, Jan. 2014

The Fox Group, Inc.

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## 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.

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