

FoxUV™ 360nm LED Die (320x320um)



FG360-DTB

FEATURES AND APPLICATIONS

- Patented epitaxy process, unique in the industry
- Use for medical applications, curing of adhesives and coatings, and white LEDs

SPECIFICATIONS

ABSOLUTE MAXIMUM RATING (Ta =25°C)

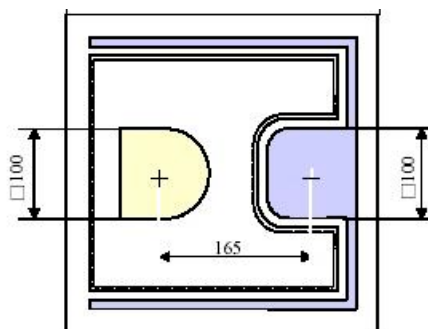
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I_f	100 **	mA
Pulse Forward Current*	I_{fp}	500 **	mA
Reverse Voltage	V_r	5	V
Operating Temperature	T_{opr}	-20 to +80	°C
Storage Temperature	T_{stg}	-40 to +100	°C

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

OPTICAL AND ELECTRICAL CHARACTERISTICS (Ta=25°C)

Item	Symbol	Condition	Min	Typ.	Max	unit
Forward Voltage	V_f	$I_f=20\text{mA}$	3.6	4.3	5.0	V
Reverse Current	I_r	$V_r=5\text{V}$			100	uA
Peak Wavelength	Wp	$I_f=20\text{mA}$	360	361	362	nm
Flux		$I_f=20\text{mA}$	300	500	1000	uW

CHIP DESCRIPTION



MATERIAL:

Substrate: Sapphire
Epitaxial Layers: GaN and AlGaN
Chip size: 320x320 ±5um (260um mesa)
Pad size: 100 um
Pad spacing, center to center: 165 um

Rev G, Jan. 2014

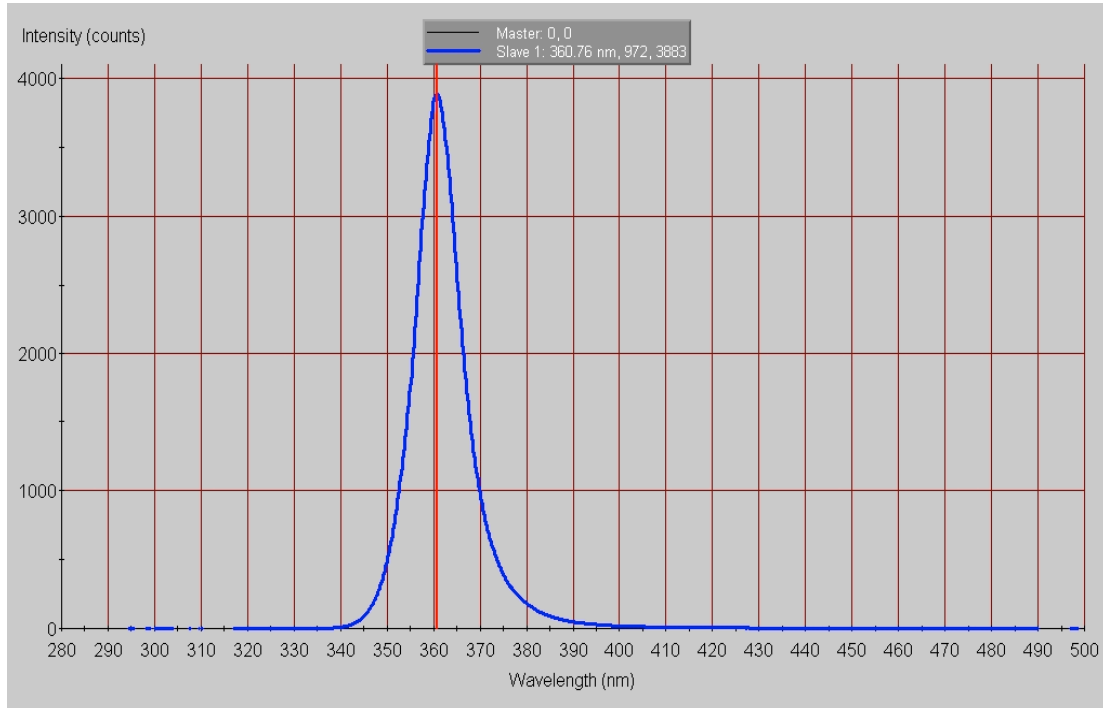
The Fox Group, Inc.
54 Jennie Dade Lane Sperryville VA 22740
Tel: (540) 987-8271 Fax: (540) 987-9444 sales@thefoxgroupinc.com

FoxUV™ 360nm LED Die (320x320um)



FG360-DTB

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 G, Jan. 2014

The Fox Group, Inc.
54 Jennie Dade Lane Sperryville VA 22740
Tel: (540) 987-8271 Fax: (540) 987-9444 sales@thefoxgroupinc.com