

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
- Fluorescence-excitation and sensors for analyzers and detectors

SPECIFICATIONS

Absolute Maximum Rating (Ta = 25°C)

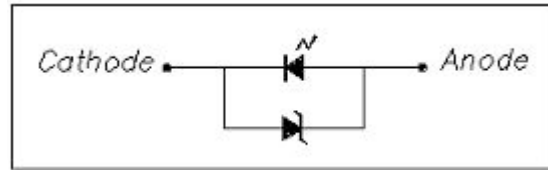
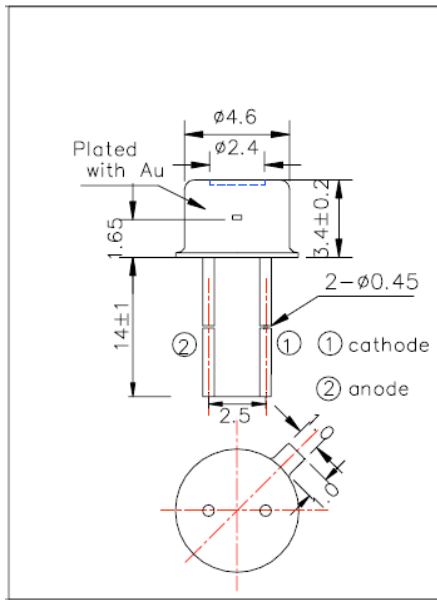
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I _f	30	mA
Pulse Forward Current*	I _{fp}	80	mA
Reverse Current	I _{Rz}	200	mA
Operating Temperature	T _{opr}	-20 to +80	°C
Storage Temperature	T _{stg}	-40 to +100	°C

*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	5.1	6.0	V
Reverse Voltage	V _{Rz}	I _R =5mA	0.7	0.9	1.5	V
Peak Wavelength	λ _p	I _f =20mA	337	339	341	nm
Viewing Angle		I _f =20mA	-	90	-	deg.
Output Power	P _o	I _f =20mA	20	50	100	μW

LED Dimensions (typical)

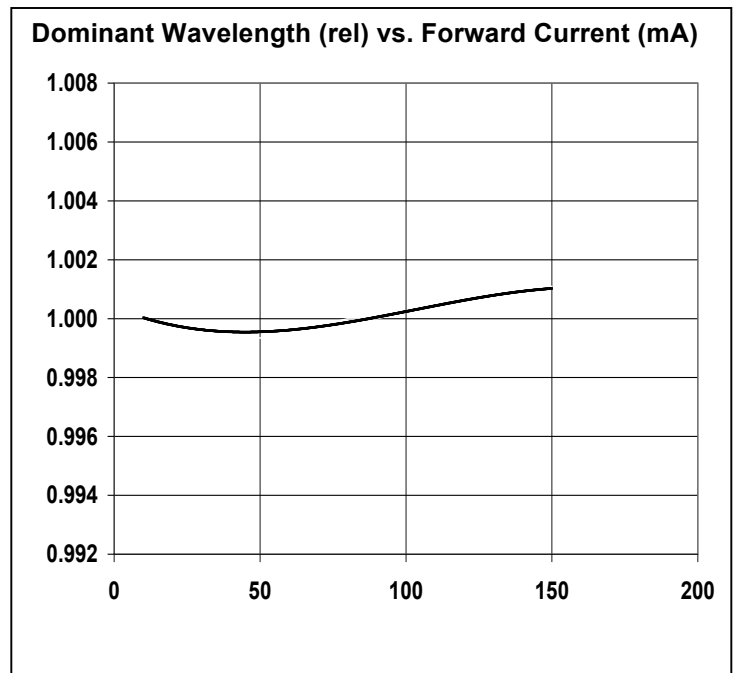
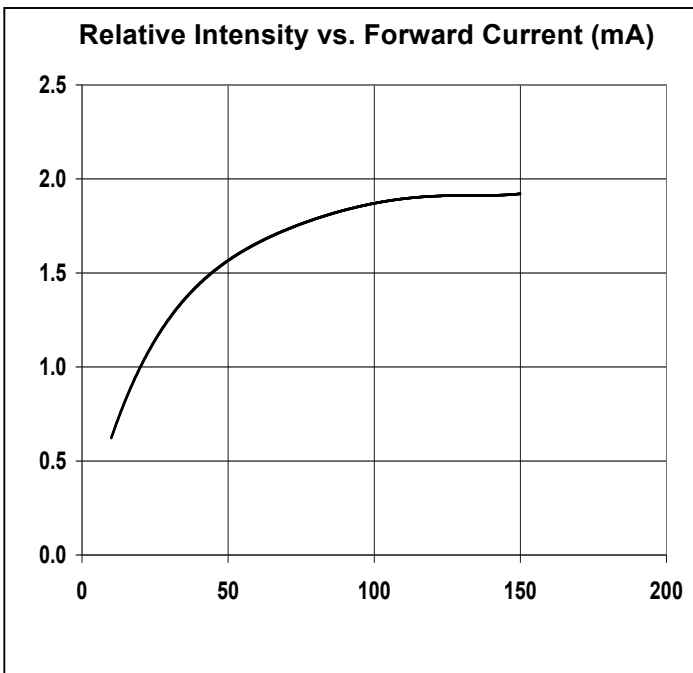
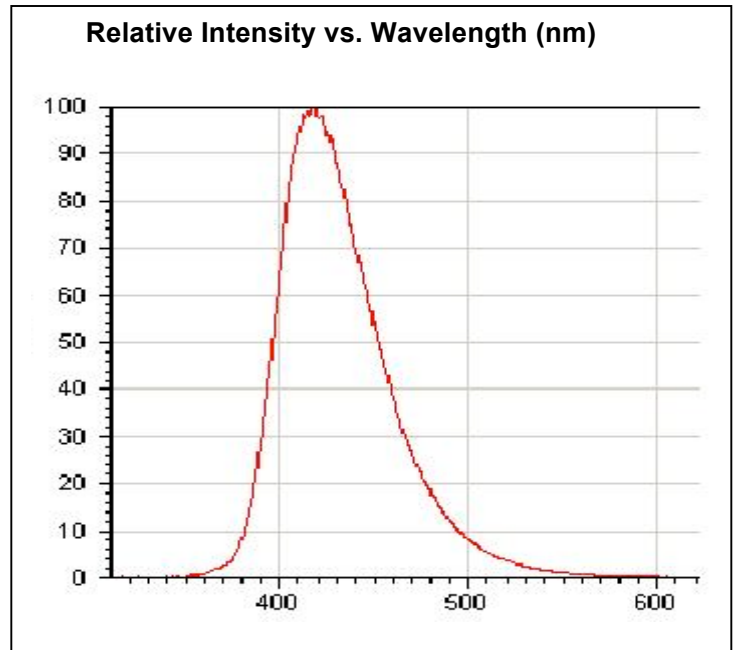
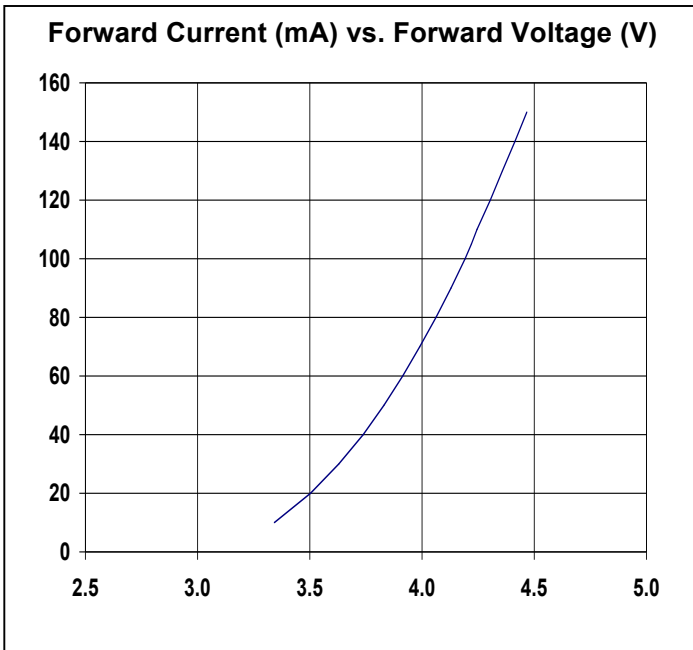


- TO-18 stem type mount
- Borosilicate glass window
- 45° viewing half angle
- Covered and hermetically sealed
- Zener diode protection

Warnings and Handling Instructions

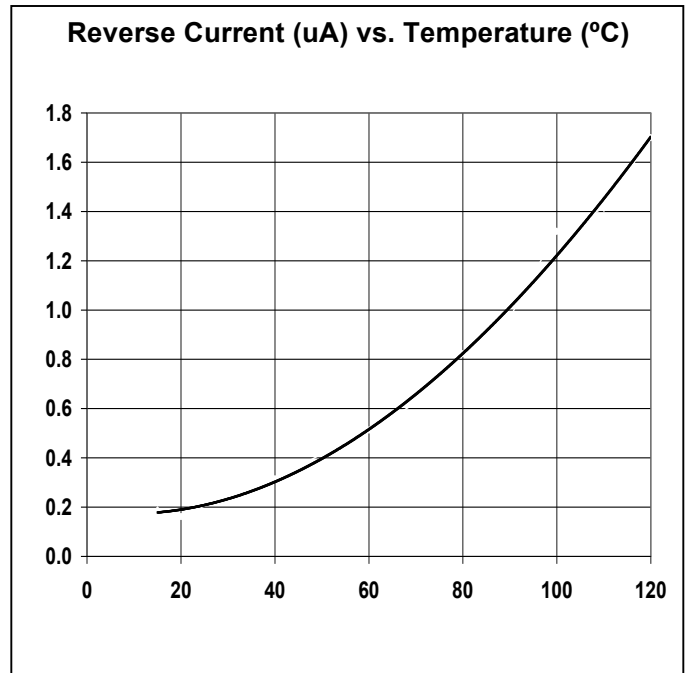
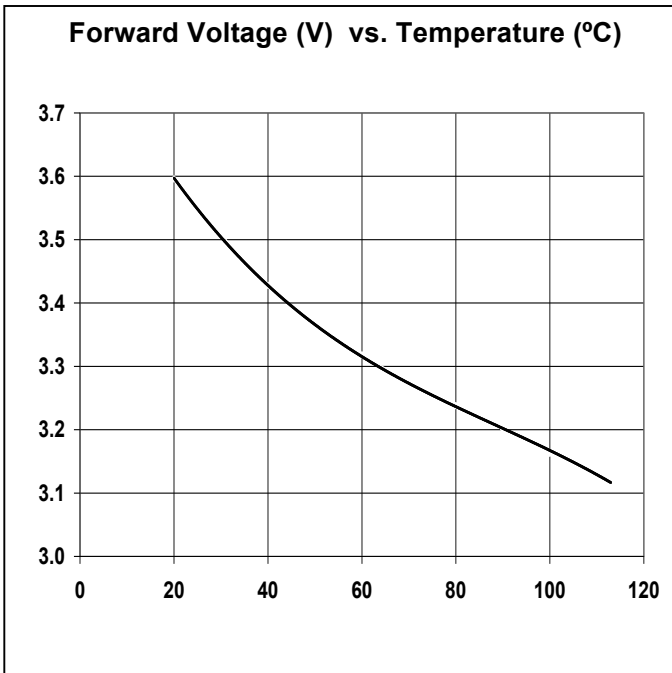
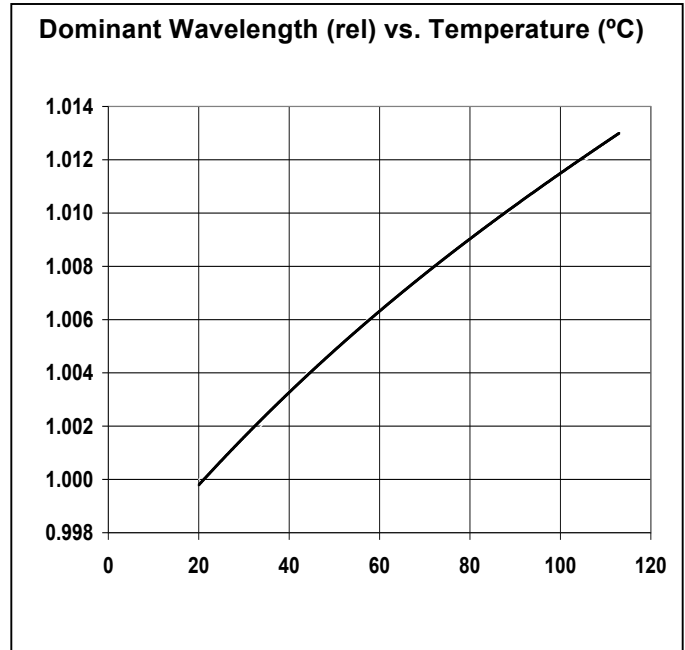
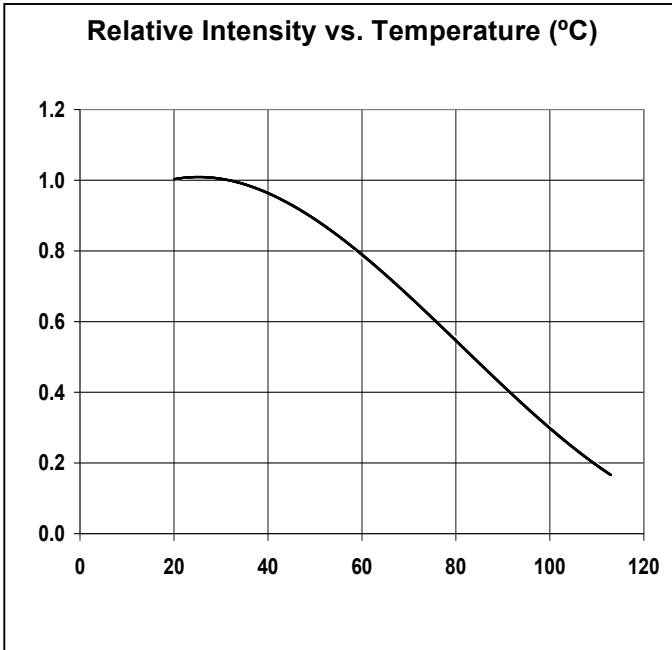
- UV LEDs emit intense but mainly invisible ultraviolet radiation when in operation, which may be harmful to eyes, even for brief periods.
- *** DO NOT LOOK DIRECTLY INTO THE UV LED DURING OPERATION ***
- *** BE SURE THAT YOU AND ALL PERSONS IN THE VICINITY WEAR SAFETY GOGGLES THAT PROVIDE SUITABLE UV 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.

Typical Electrical and Optical Characteristics Curves



These are typical measurements, representative of specific production lots; actual curves may vary.

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