



SPECIFICATIONS

EOLD-365-012

Features:

- With lens, viewing angle 10°
- Color: UV. Wavelength 365 nm Typical
- Package TO46
- Package size: 18.7 (total length) x 5.4 (header diameter) x 4.65 (cap diameter) mm
- Devices are ROHS and REACH compliant
- Anode connected to case

• Typical Electro-Optical Characteristics Typische Elektrooptische Eigenschaften

Measurement conditions

 $T_{\text{ambient}} = 23\text{ °C}$; $t_{\text{test}} \leq 60\text{ ms}$

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Emitting Color				Ultraviolet		
Forward Voltage	U_f	$I_f = 20\text{ mA}$		3.5		V
Peak Wavelength	λ_p	$I_f = 20\text{ mA}$		365		nm
FWHM	$\Delta\lambda$	$I_f = 20\text{ mA}$		15		nm
Radiant Power	Φ_e	$I_f = 20\text{ mA}$		1.5		mW
Reverse Current	I_R	$U_R = 5\text{ V}$			8	μA
Viewing Angle	φ			10		deg.

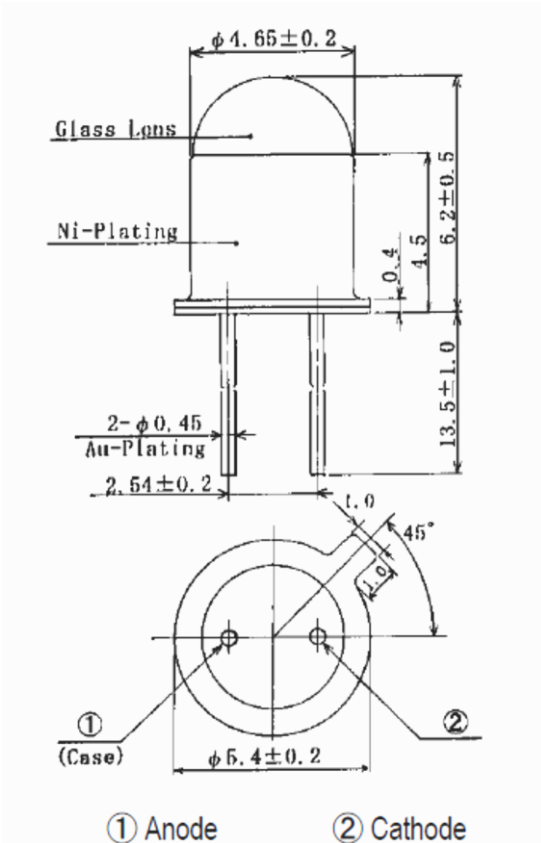
• Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Forward Current	$I_{f, \text{max}}$		15	mA
Forward Current, pulsed	$t_p \leq 0.1\text{ ms}$, $\tau = 1:10$		30	mA
Max. Power Dissipation	P_D		60	mW
Reverse Voltage	U_R		5	V
Lead Soldering Temperature	$< 5\text{ s}$, 3mm from case		260	$^{\circ}\text{C}$
Junction Temperature	T_J		100	$^{\circ}\text{C}$
Operating Temperature	T_{op}	-20	+80	$^{\circ}\text{C}$
Storage Temperature	T_{st}	-30	+100	$^{\circ}\text{C}$

Electrostatic discharge classification (MIL-STD-883)**class 1**

Outline Drawing Zeichnung

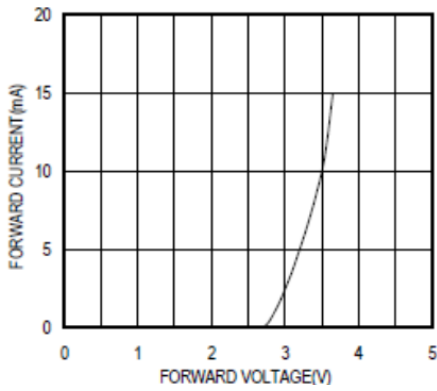
Unless otherwise specified, all drawing units are in mm
Tolerances are: ISO 2768-m



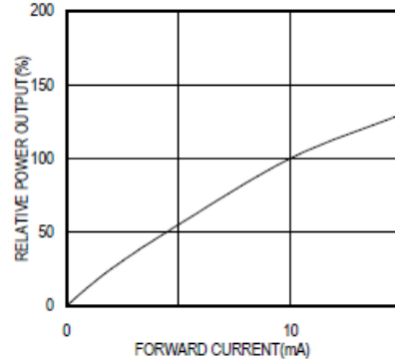
Pin 1 – Anode and case

Pin 2 – Cathode

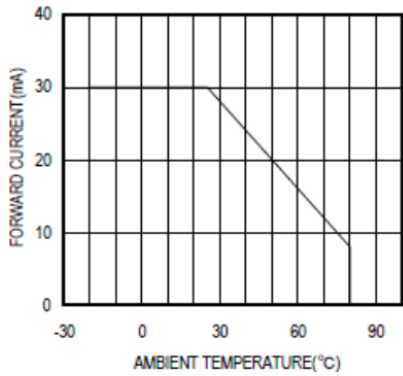
• Typical Performance Diagram



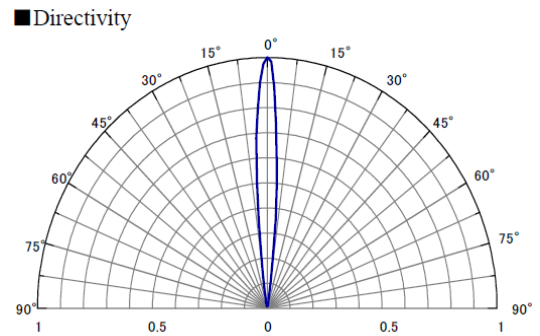
Forward Current vs. Forward Voltage



Radiant Power vs. Forward Current

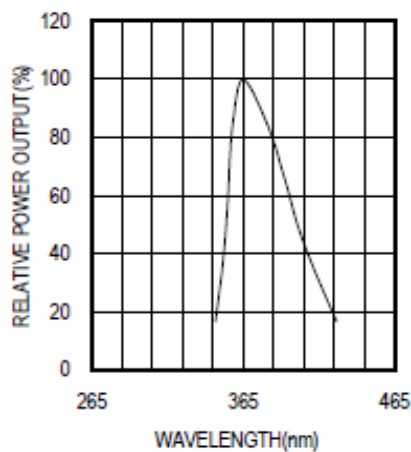


Max. Forward Current vs. Ambient Temperature



Viewing Angle

SPECTRAL OUTPUT



Relative Spectral Emission

• 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, disposing, or otherwise handling LED dies or packaged LEDs, including static electricity protection.**
- **The user has the responsibility to inform, train and instruct, customers and employees of the dangers to eye safety.**

- **UV-LEDs are ESD sensitive (Class1). Handling and use of UV-LEDs must be compatible with the ESD sensitivity rating**

Attention please

The information describes the type of component and shall not consider as assured characteristics. Terms of delivery and rights to change reserved. The data sheet may change without prior notification; The only valid issue and current revision will be on our website. Due to technical requirements, components may contain dangerous substances.

Parameters can vary in different applications. The customer must validate all operating parameters for each customer application. EPIGAP OSA Photonics GmbH does not have the responsibility for the reliability and the degradation behavior of products made with EPIGAP OSA Photonics GmbH diodes because they depend not only on the diode but also on the conditions of manufacture or design of the final products. The customer is responsible to ensure the long-term stability of the product according to customer's requirements. If components are used in toys or, life support systems, then EPIGAP OSA Photonics GmbH must expressly authorize use of components prior to incorporation into the customer's systems!

Packaging: EPIGAP OSA Photonics GmbH uses recyclable packages; please use the recycling operators known to you.

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