

# EPIGAP Optronik GmbH

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## Data sheet

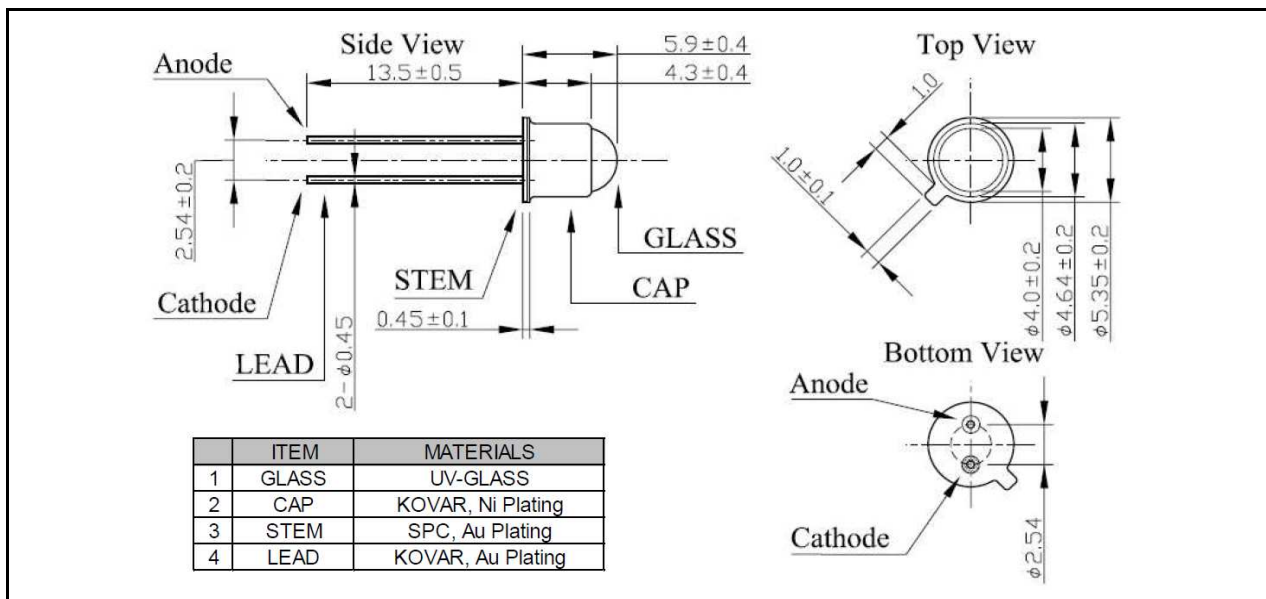
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### UV LED

### EOLD-310-013

Rev. 05, 2020

Radiation	Type	Case
Ultraviolet (UVB)	AlGaN	metal TO-46 package with lens



All dimensions in mm

anode, connected with case  
 cathode, isolated from case

### Maximum Ratings

$T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current		$I_F$	40	mA
Operating temperature range		$T_{amb}$	-30 to +80	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-40 to +100	$^{\circ}\text{C}$
Lead soldering temperature	Manual soldering, < 3 s	$T_{slg}$	350	$^{\circ}\text{C}$
Lead soldering temperature	Flow soldering, < 5 s	$T_{slg}$	250	$^{\circ}\text{C}$

### Optical and Electrical Characteristics

$T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 20 \text{ mA}$		5		V
Radiant power	$\Phi_e$	$I_F = 20 \text{ mA}$		0.9		mW
Peak wavelength	$\lambda_p$	$I_F = 20 \text{ mA}$	305	310	315	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		15		nm
Viewing angle	$\varphi$	$I_F = 20 \text{ mA}$		6		deg.



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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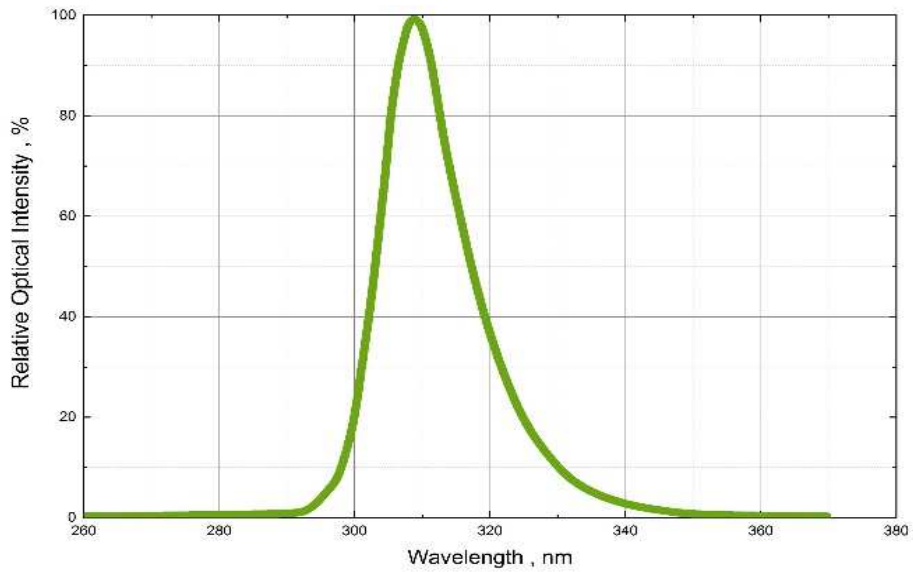
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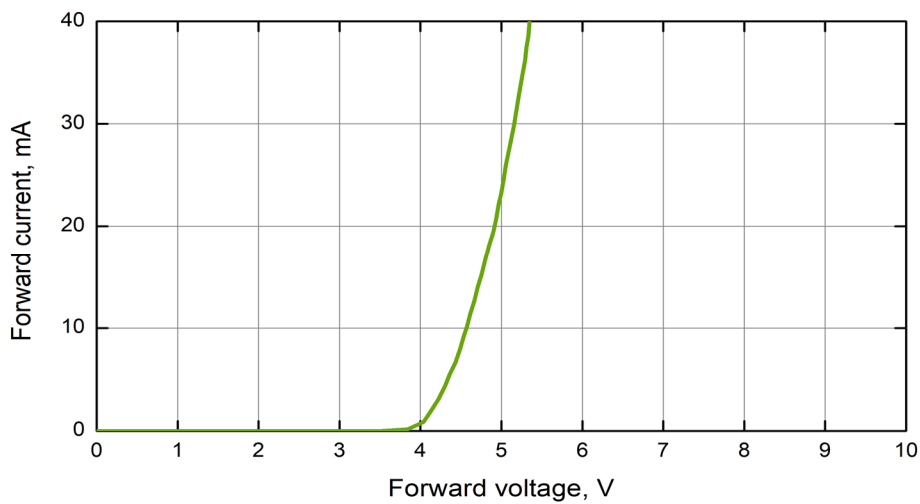
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Spectrum @ 20 mA



Forward current vs. forward voltage



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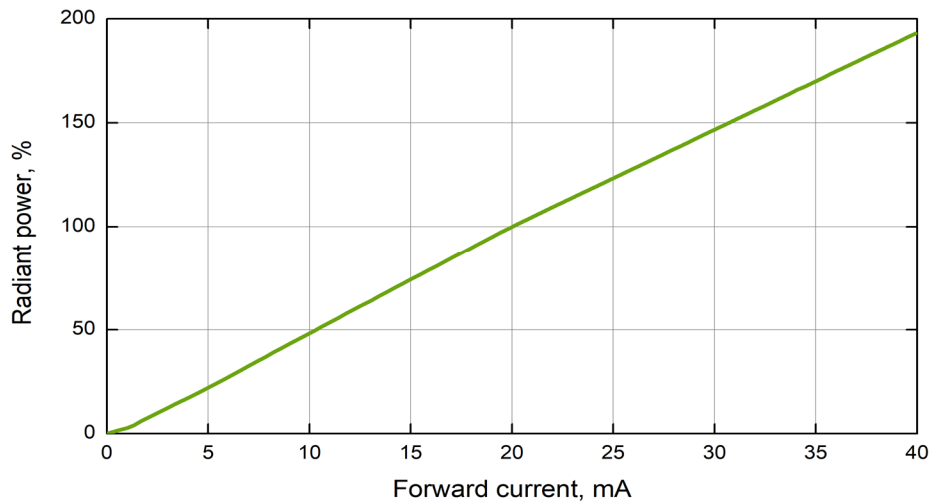
## Data sheet

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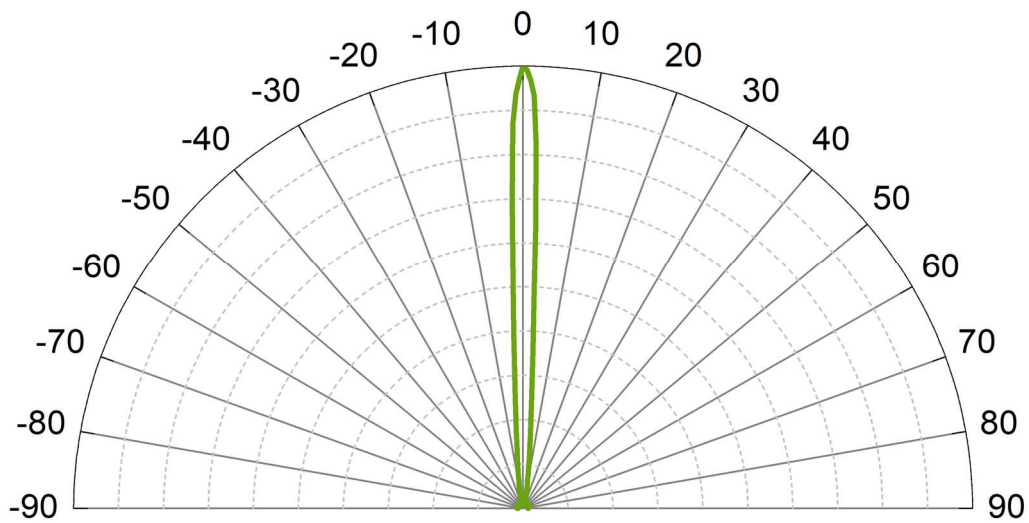
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Radiant power vs. forward current



Radiation pattern

Art. No. 134 092



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