

# EPIGAP Optronik GmbH

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## Data sheet

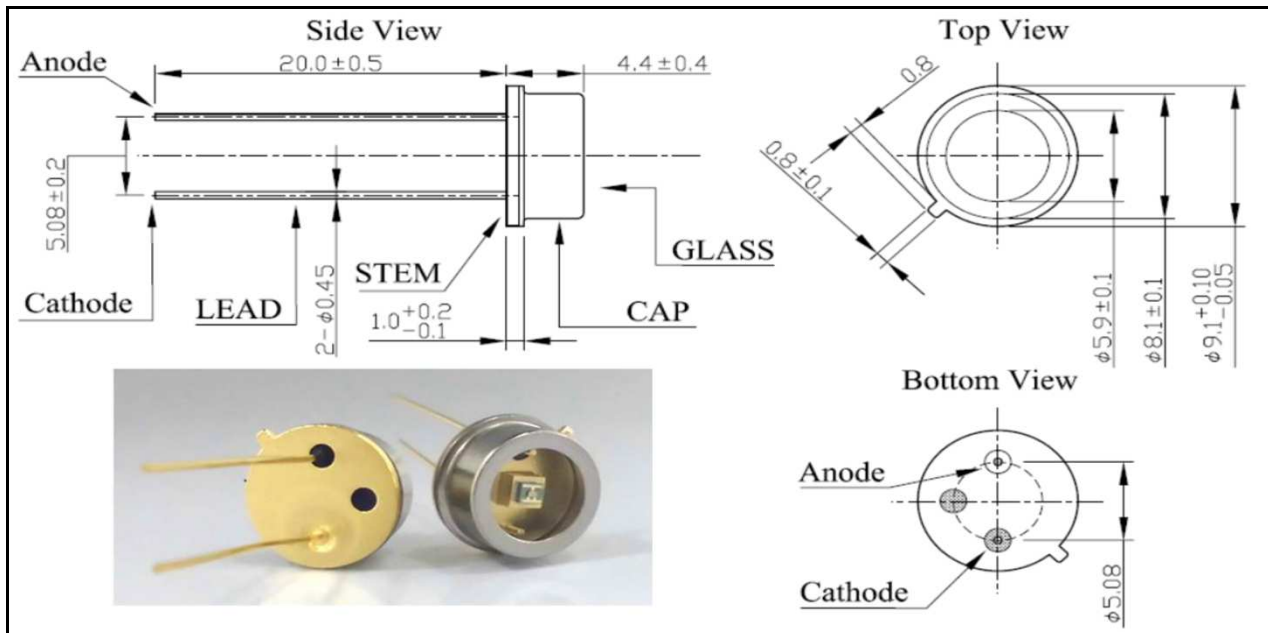
page 1 of 3

### UV LED

### EOLD-310-093-1

Rev. 01, 2018

Radiation	Type	Case
Ultraviolet (UVB)	AlGaIn	metal TO-39 / TO-5 with flat window



### Maximum Ratings

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



Parameter	Test Conditions	Symbol	Value	Unit
Forward current		$I_F$	40	mA
Power dissipation		$P_D$	160	mW
Operating temperature range		$T_{amb}$	-30 to +80	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-40 to +100	$^{\circ}\text{C}$
Flow soldering temperature	< 5 s	$T_{slg}$	250	$^{\circ}\text{C}$
Manual soldering temperature	< 3 s	$T_{slg}$	350	$^{\circ}\text{C}$

### Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 20 \text{ mA}$		6-7		V
Radiant power	$\Phi_e$	$I_F = 20 \text{ mA}$		0.8		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	$\varphi$	$I_F = 20 \text{ mA}$		$\pm 57$		deg.
Rise time / fall time	$t_r, t_f$	$I_F = 20 \text{ mA}$		16; 8		ns

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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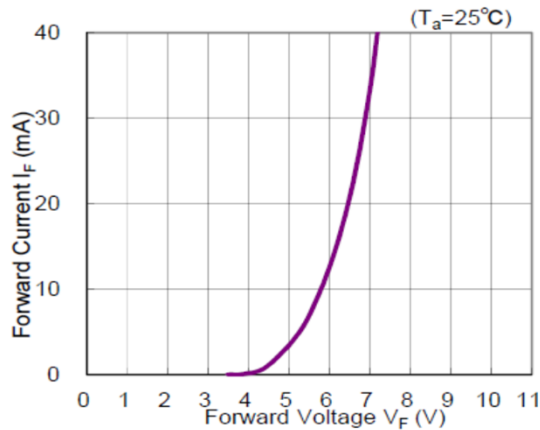
page 2 of 3

### UV LED

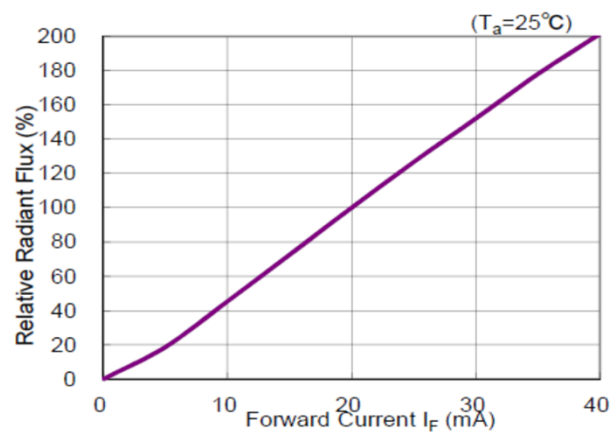
### EOLD-310-093-1

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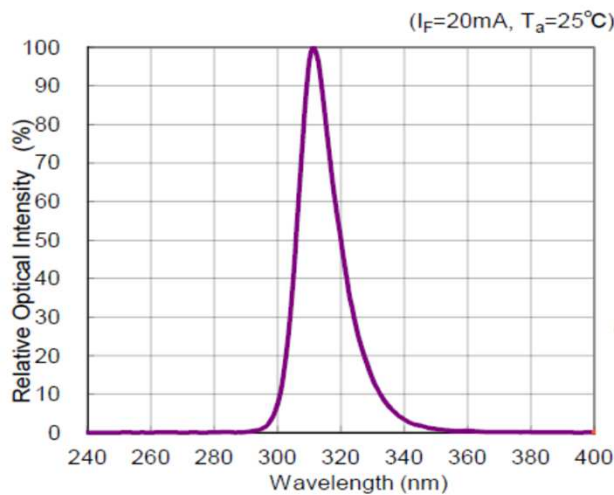
#### Forward Current vs Forward Voltage



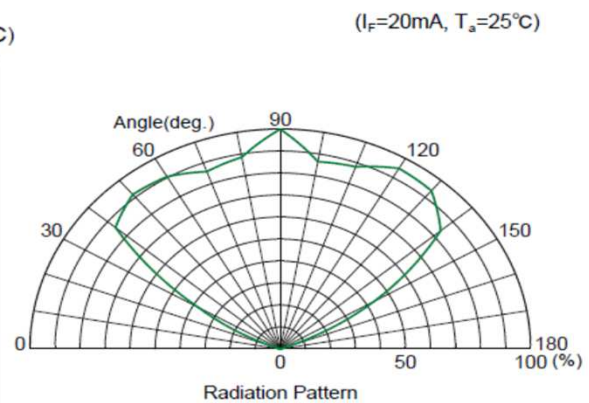
#### Radiant Flux vs Forward Current



#### Spectrum



#### Radiation Pattern



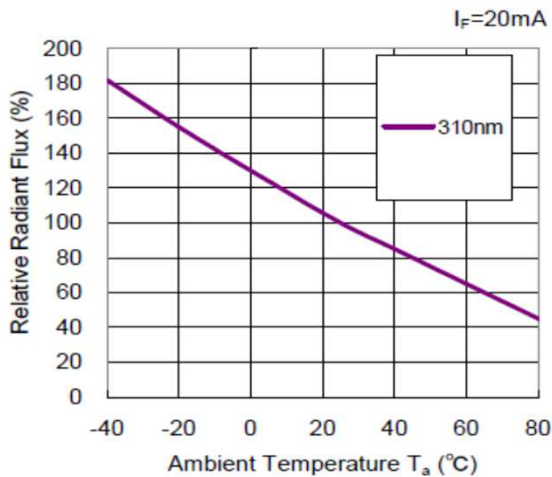
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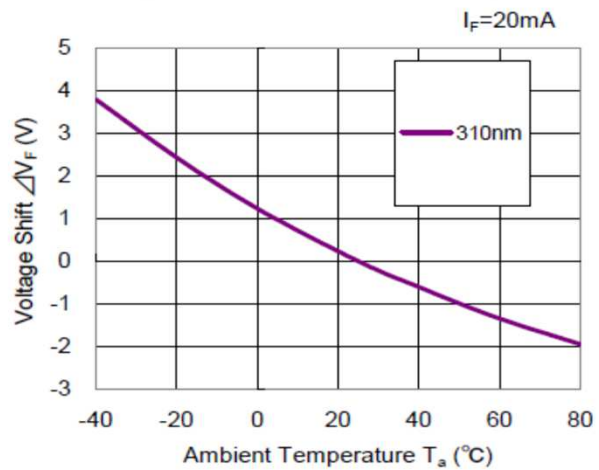
**UV LED**

**EOLD-310-093-1**

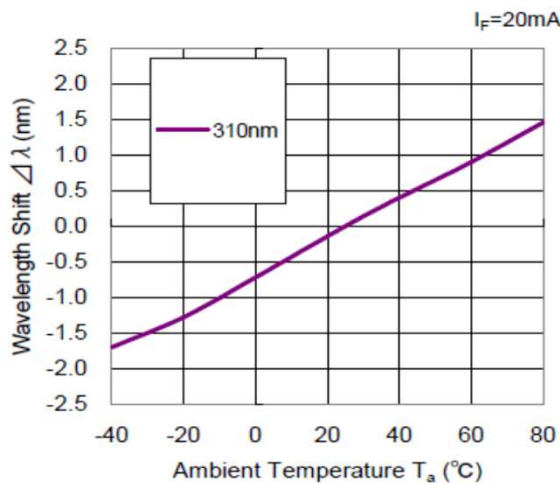
**Radiant Flux vs Ambient Temperature**



**Voltage Shift vs Ambient Temperature**



**Wavelength Shift vs Ambient Temperature**



Art. No. xxx xxx



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