

# EPIGAP Optronik GmbH

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## Data sheet

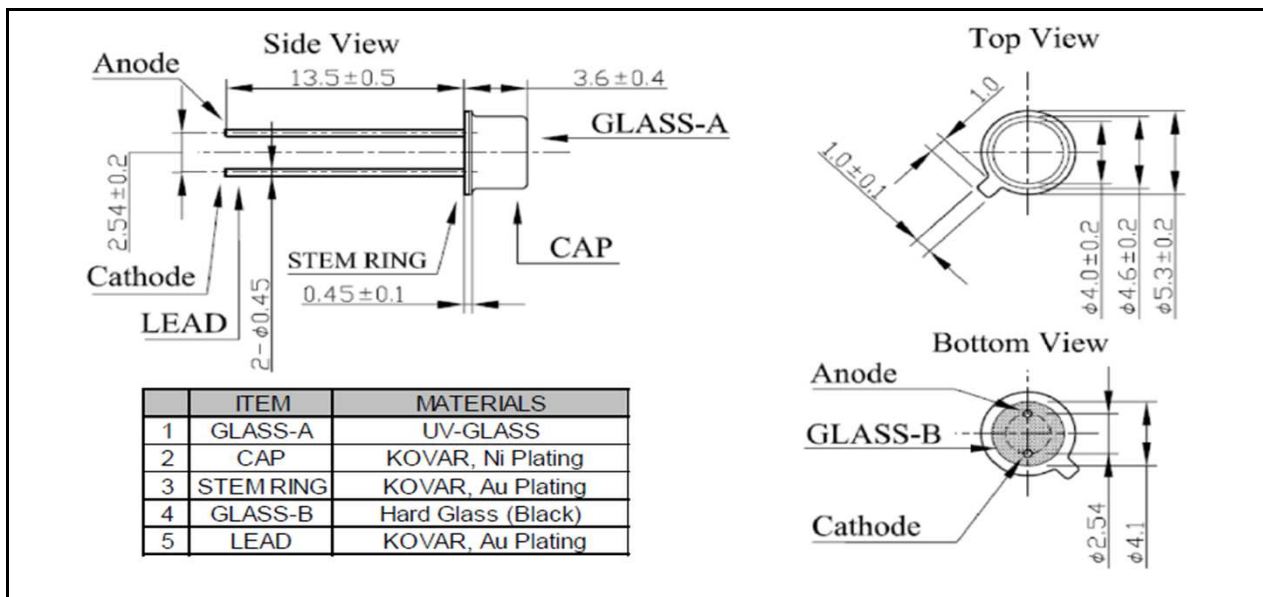
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### UV LED

### EOLD-310-093

Rev. 01, 2016

Radiation	Type	Case
Ultraviolet (UVB)	AlGaIn	metal TO-18 package 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
Reverse voltage	$I_R = 10 \mu\text{A}$	$V_R$	>10	V
Reverse current	$V_R = 5 \text{V}$	$I_R$	<1	$\mu\text{A}$
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	< 3 s (manual); < 5 s (flow)	$T_{slg}$	350; 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	$V_F$	$I_F = 20 \text{mA}$		6.5		V
Opt. output power	$P_o$	$I_F = 20 \text{mA}$		0.7		mW
Peak wavelength	$\lambda_p$	$I_F = 20 \text{mA}$	305	310	315	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	$I_F = 20 \text{mA}$		10		nm
Viewing angle	$\varphi$	$I_F = 20 \text{mA}$		$\pm 57$		deg.
Rise and fall time*	$t_r, t_f$	$I_{FP} = 200 \text{mA}$		16; 8		ns

\*Test conditions: frequency=100 kHz, duty=1%

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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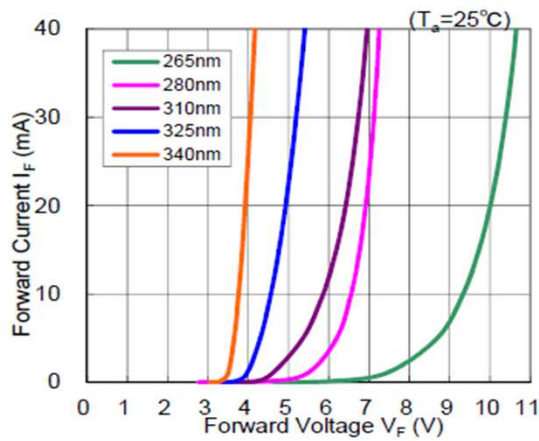
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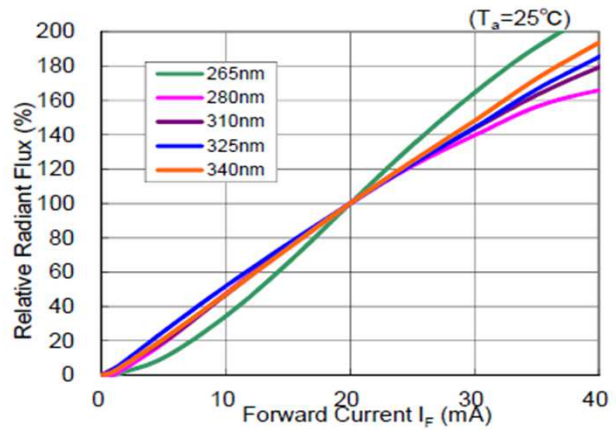
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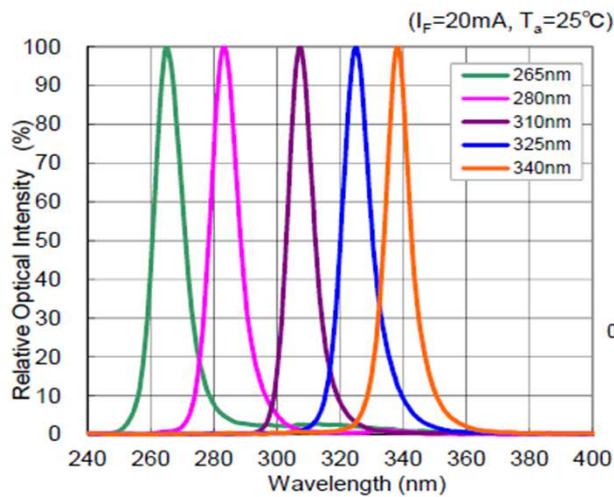
#### Forward Current vs Forward Voltage



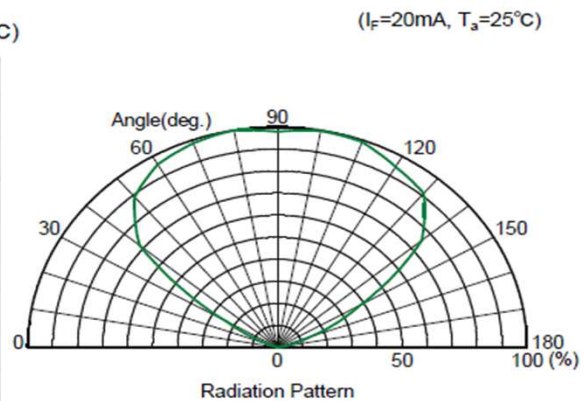
#### Forward Current vs Radiant Flux



#### Relative Intensity vs Peak Wavelength



#### Radiation Pattern



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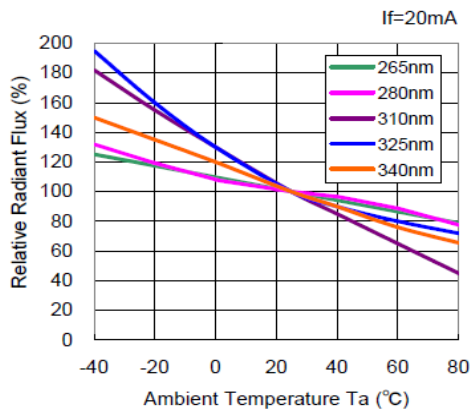
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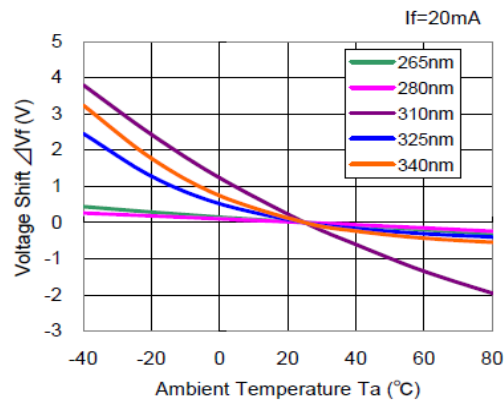
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#### Radiant Flux vs Ambient Temperature



#### Voltage Shift vs Ambient Temperature



#### Wavelength Shift vs Ambient Temperature

