

# EPIGAP Optronik GmbH

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## Data sheet

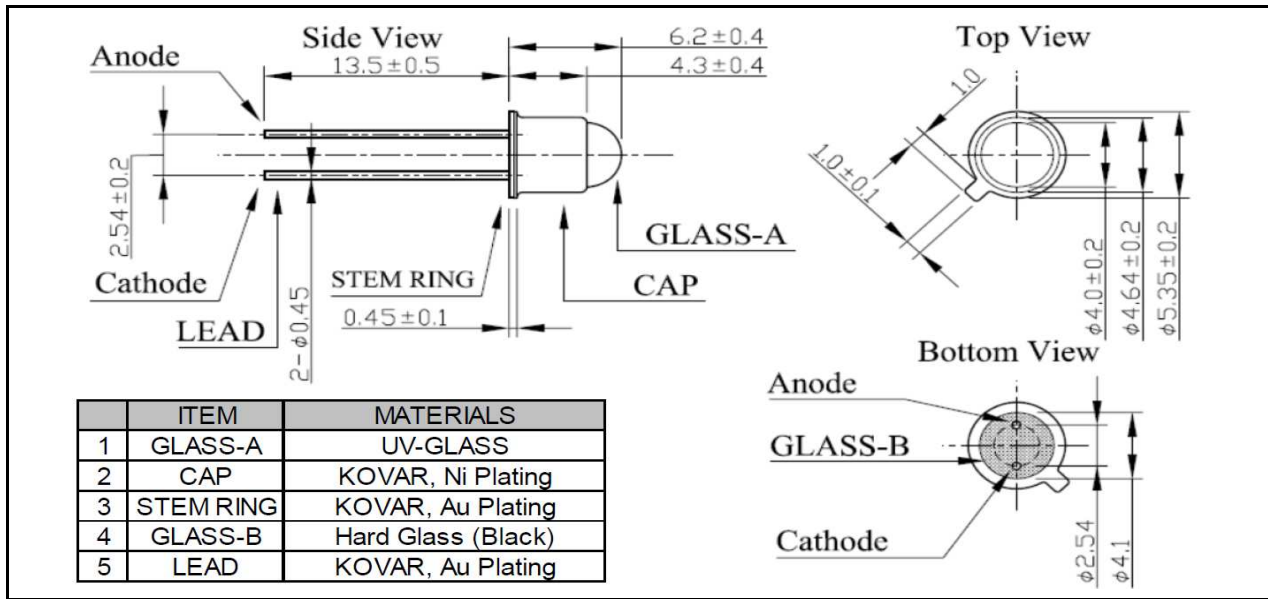
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### UV LED

### EOLD-325-043

Rev. 01, 2017

Radiation	Type	Case
Ultraviolet (UVA)	AlGaIn	metal TO-18 package with lens



### Maximum Ratings

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	40	mA
Reverse voltage		V <sub>R</sub>	>10	V
Reverse current		I <sub>R</sub>	<1	μA
Operating temperature range		T <sub>amb</sub>	-30 to +80	°C
Storage temperature range		T <sub>stg</sub>	-40 to +100	°C
Lead soldering temperature	< 5 s	T <sub>slg</sub>	300	°C

### Optical and Electrical Characteristics

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA		4.5		V
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 20 mA		0.9		mW
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	320	325	330	nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		40		deg.
FWHM	Δλ <sub>0.5</sub>	I <sub>F</sub> = 20 mA		11		nm
Rise time / fall time*	t <sub>r</sub> , t <sub>f</sub>	I <sub>F</sub> = 200 mA		20; 9		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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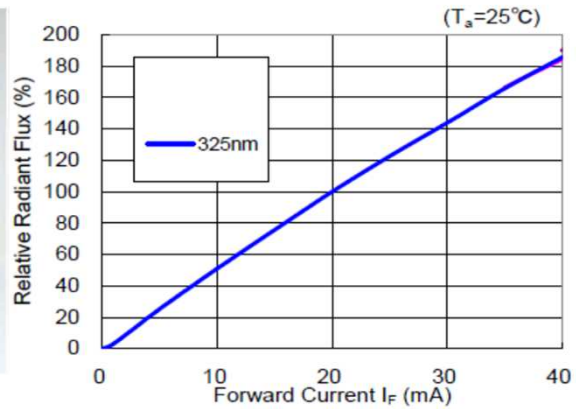
### UV LED

### EOLD-325-043

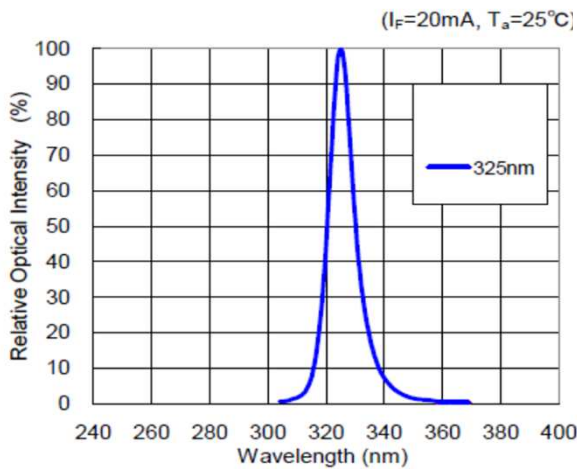
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Rev. 01, 2017



#### Radiant Flux vs Forward Current



#### Relative Intensity vs Peak Wavelength



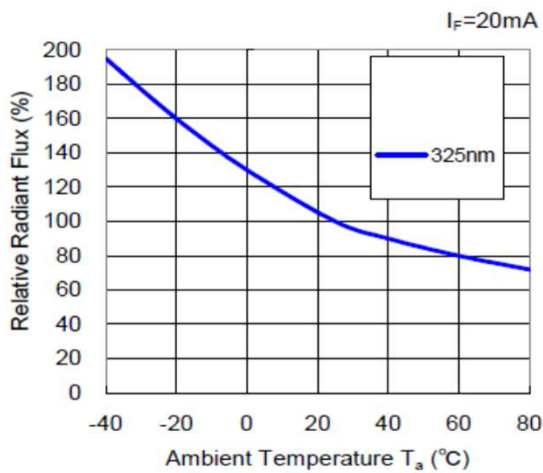
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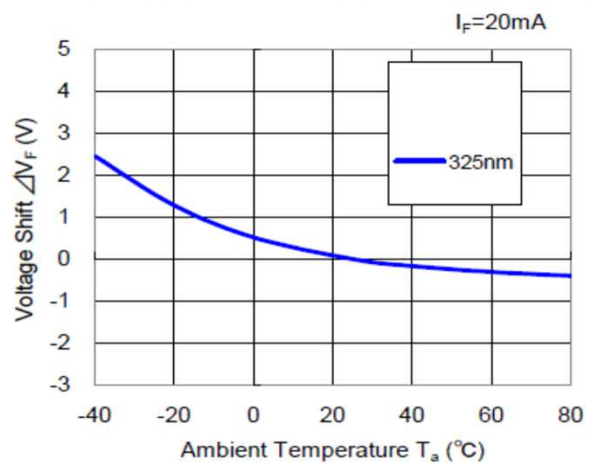
**UV LED**

**EOLD-325-043**

**Radiant Flux vs Ambient Temperature**



**Voltage Shift vs Ambient Temperature**



**Wavelength Shift vs Ambient Temperature**

