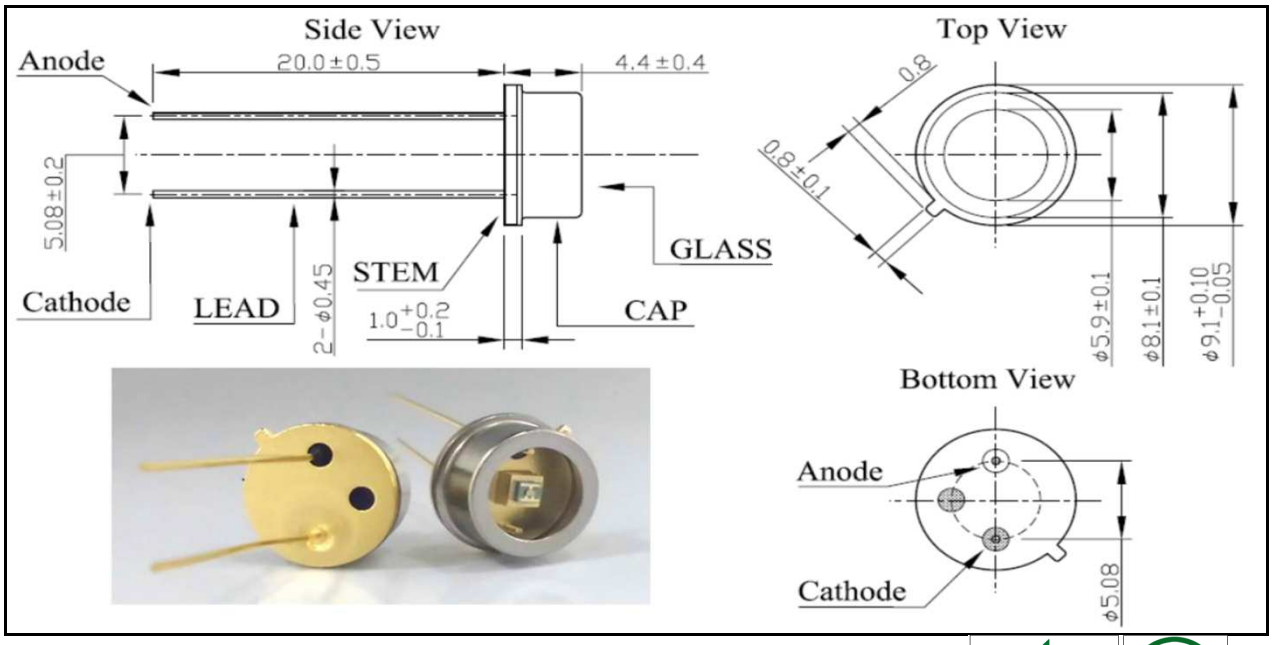
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Data sheet

UV LED — EOLD-310-093-1

Rev. 01, 2018

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



Maximum Ratings

T_{amb}= 25°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	°C
Storage temperature range		T_{stg}	-40 to +100	°C
Flow soldering temperature	< 5 s	T_{slg}	250	°C
Manual soldering temperature	< 3 s	T_{slg}	350	°C

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

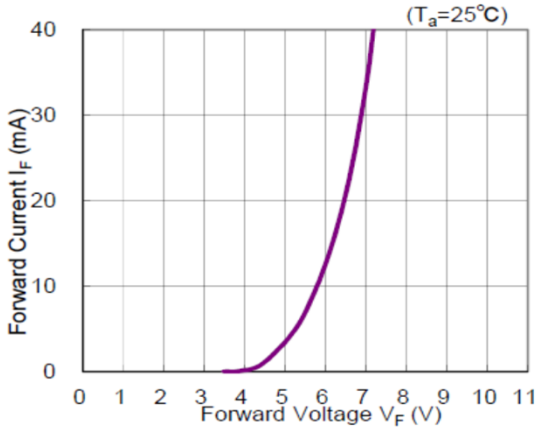
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA		6-7		V
Radiant power	Φ_e	I_F= 20 mA		0.8		mW
Peak wavelength	λ_p	I_F= 20 mA	305	310	315	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		15		nm
Viewing angle	φ	I_F= 20 mA		±57		deg.
Rise time / fall time	t_r, t_f	I_F= 20 mA		16; 8		ns

EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

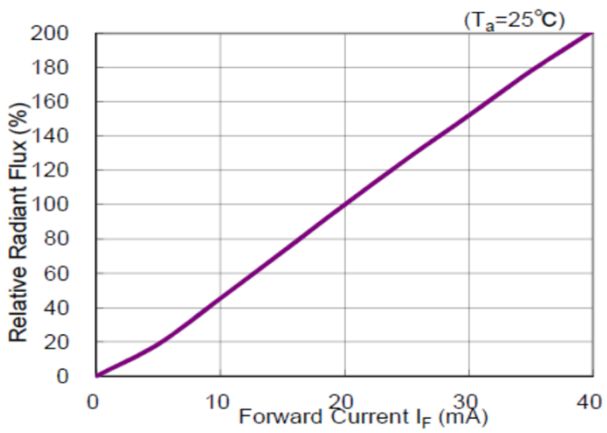
Data sheet

UV LED **EOLD-310-093-1** Rev. 01, 2018

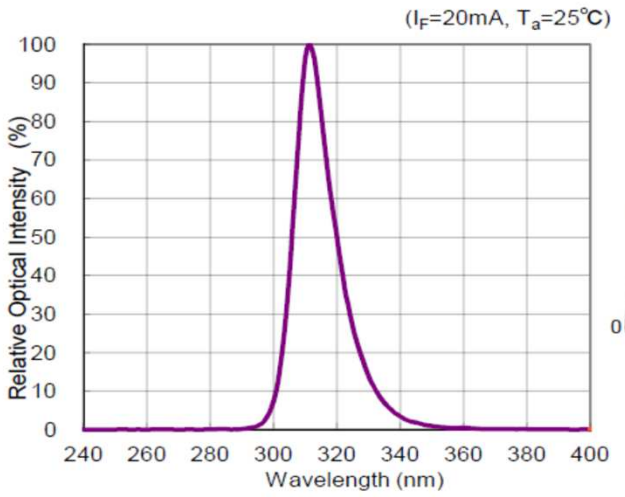
Forward Current vs Forward Voltage



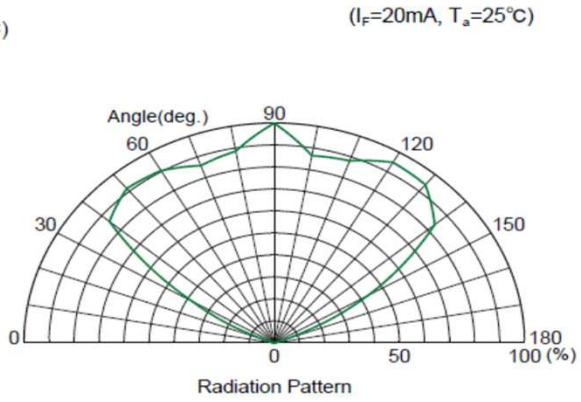
Radiant Flux vs Forward Current



Spectrum



Radiation Pattern

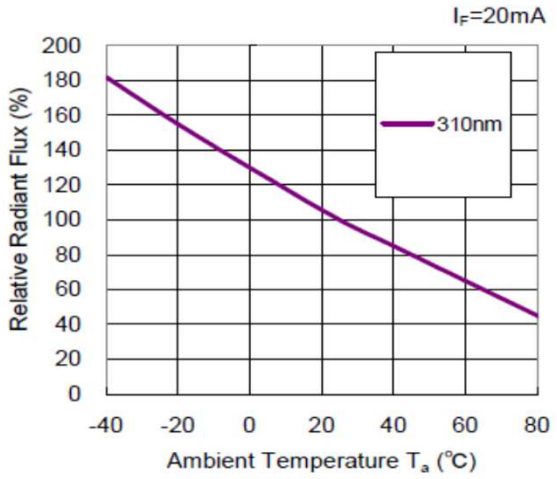


RoHS COMPLIANT Pb Pb-Free

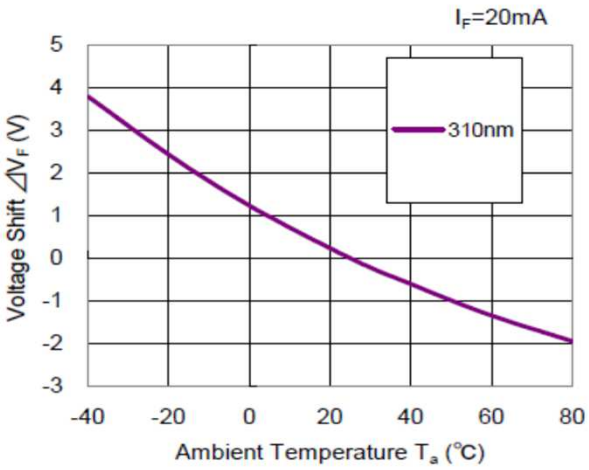
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Data sheet

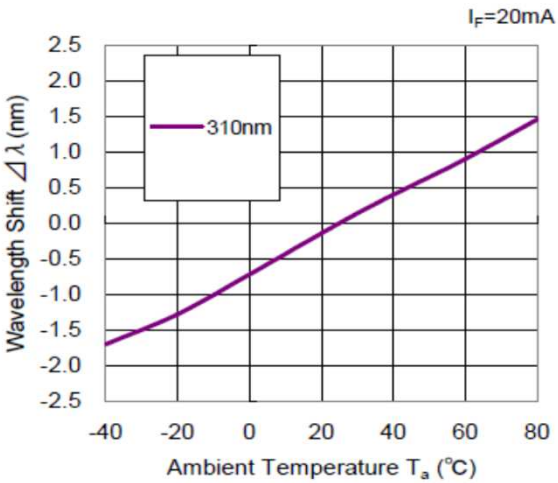
Radiant Flux vs Ambient Temperature



Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature



Art. No. xxx xxx

RoHS COMPLIANT Pb Pb-Free