EPIGAP Optronic GmbH
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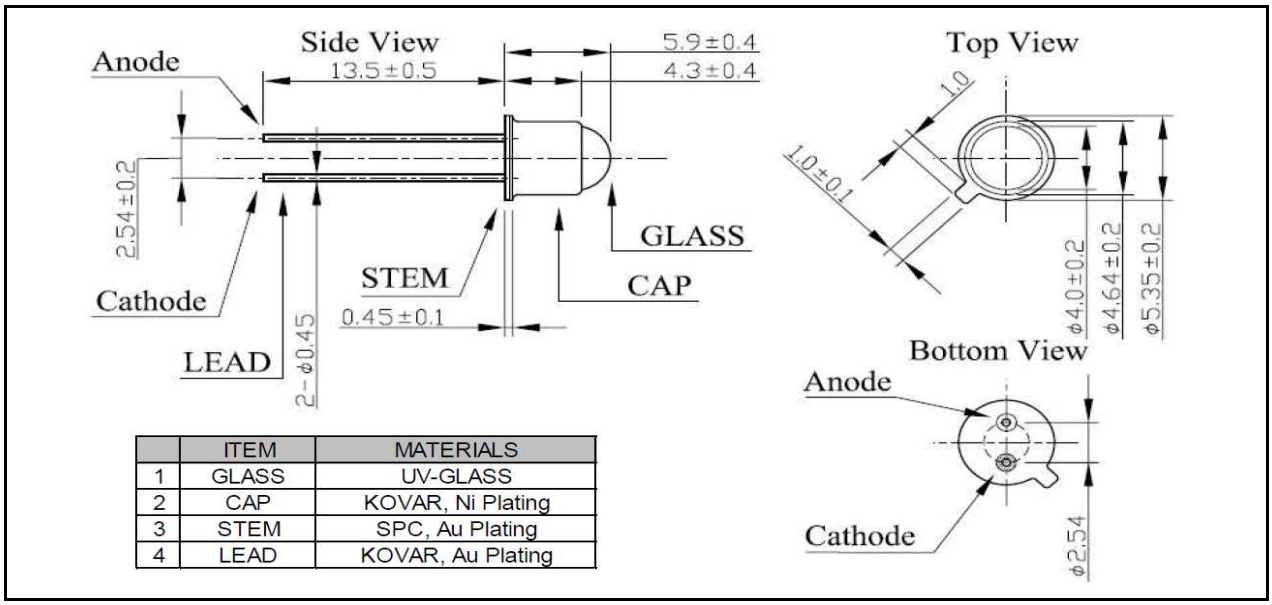
Data sheet

UV LED EOLD-280-013

Rev. 04, 2017

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



	ITEM	MATERIALS
1	GLASS	UV-GLASS
2	CAP	KOVAR, Ni Plating
3	STEM	SPC, Au Plating
4	LEAD	KOVAR, Au Plating

anode, connected with case
cathode, isolated from case

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	40	mA
Operating temperature range		T_{amb}	-30 to +80	°C
Storage temperature range		T_{stg}	-40 to +100	°C
Lead soldering temperature	< 5 s	T_{slg}	300	°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		6.5		V
Radiant power	Φ_e	I_F= 20 mA		1		mW
Peak wavelength	λ_p	I_F= 20 mA	270	280	290	nm
Viewing angle*	φ	I_F= 20 mA		6		deg.
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		12		nm

RoHS COMPLIANT Pb Pb-Free

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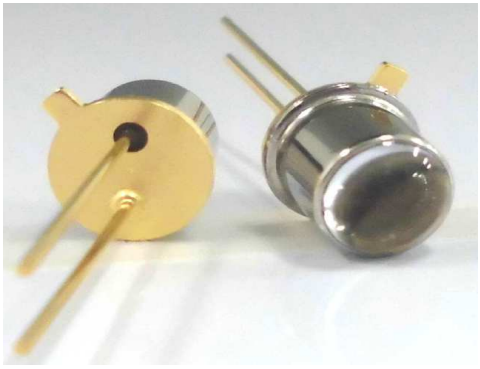
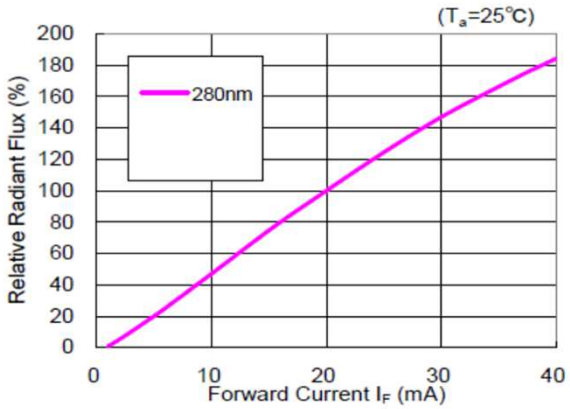
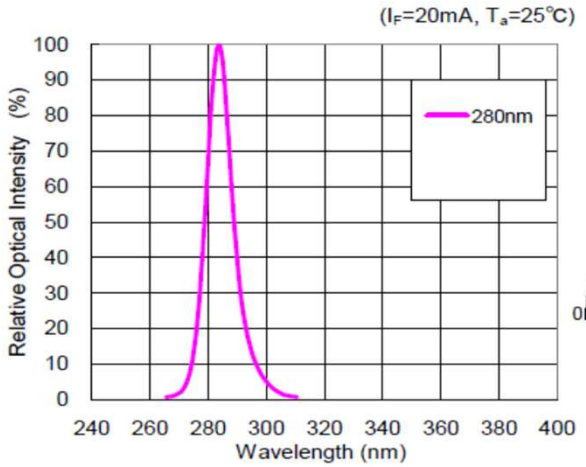


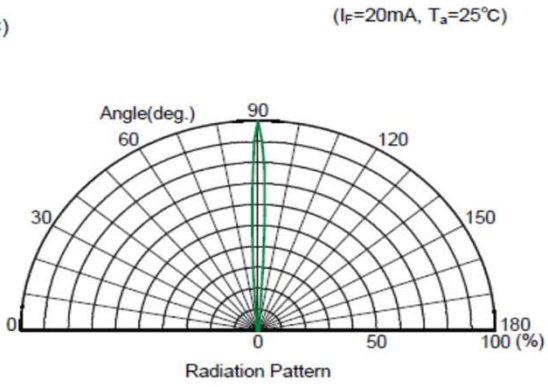
Radiant Flux vs Forward Current



Relavive Intensity vs Peak Wavelength



Radiation Pattern



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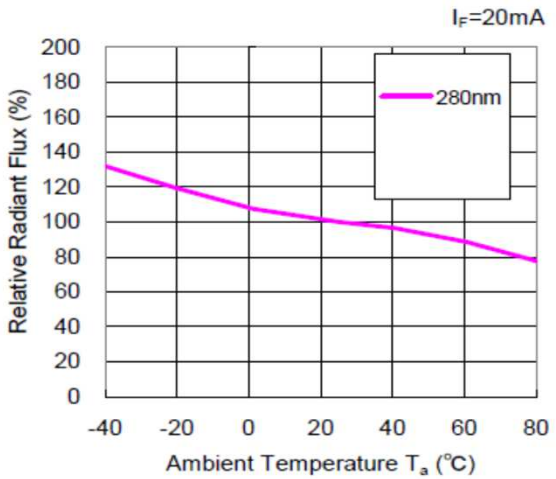
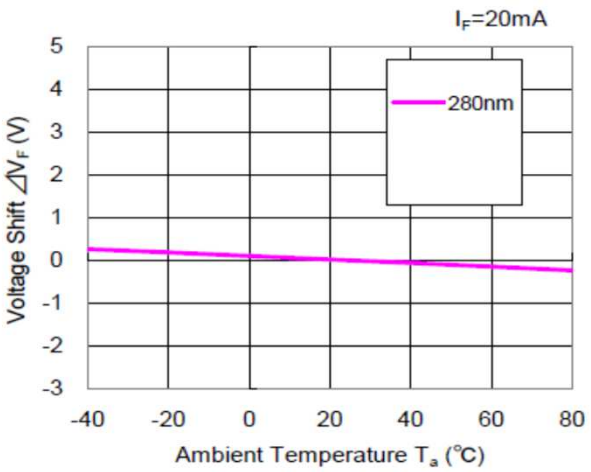
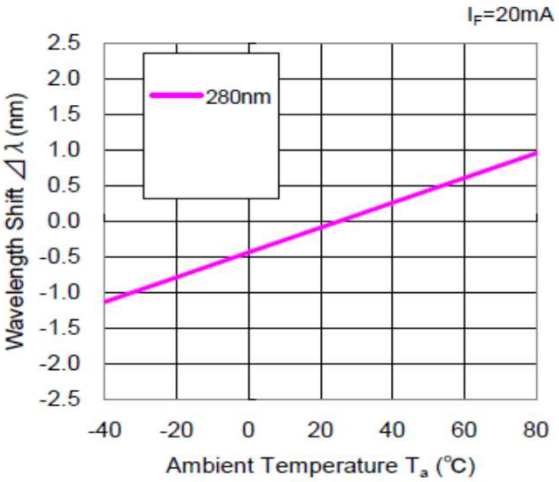
Radiant Flux vs Ambient Temperature



Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature



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