EPIGAP Optronic GmbH
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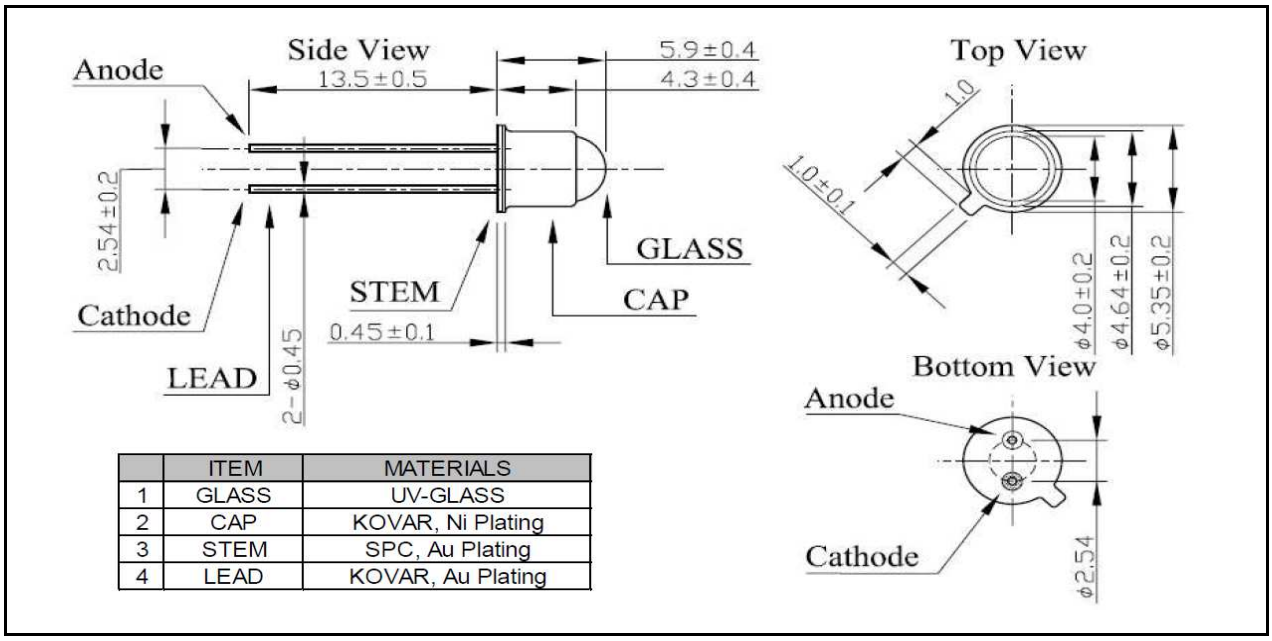
Data sheet

UV LED **EOLD-310-013** Rev. 02, 2015

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

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_{sld}	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
Opt. output power	P_o	I_F= 20 mA		0.4		mW
Peak wavelength	λ_p	I_F= 20 mA	305	310	315	nm
Viewing angle*	φ	I_F= 20 mA		6		deg.
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	I_F= 20 mA		10		nm
Rise time / fall time**	t_r, t_f	I_F= 200 mA		16; 8		ns

*on request: sealed TO-5 (TO-39), TO-18 or TO-46 packages with glass lens, viewing angles 4, 6, 24 or 40 degrees or with flat window, viewing angles 113 or 144 degrees

** Frequency 100 kHz, duty factor 1%

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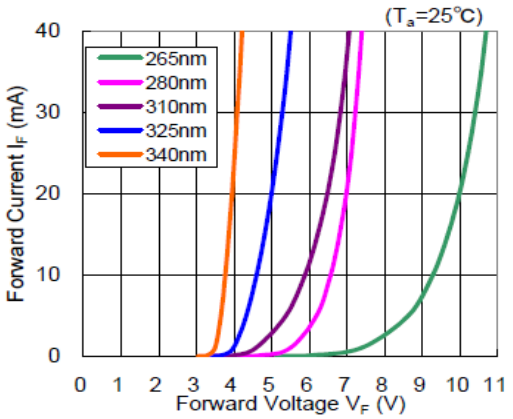
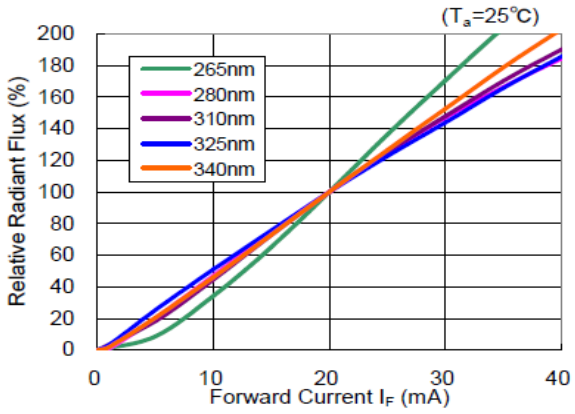
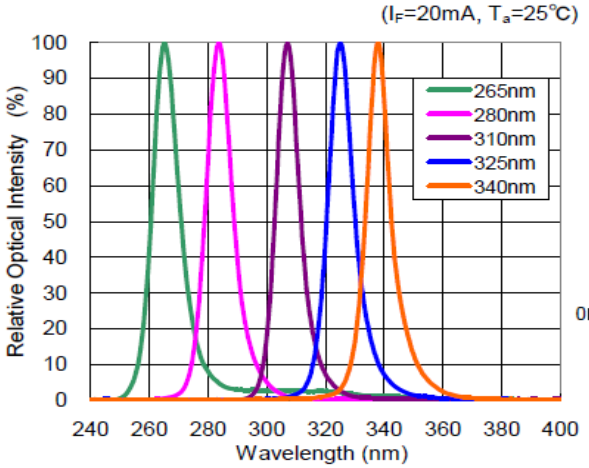
Forward Current vs Forward Voltage



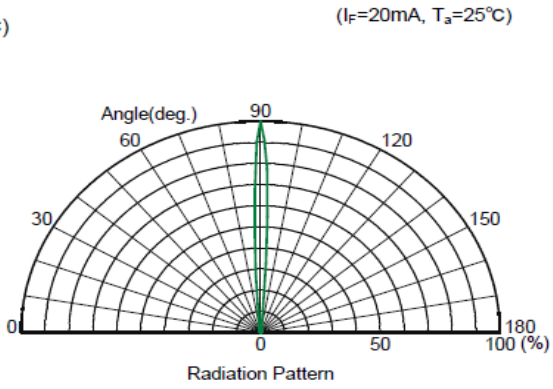
Forward Current vs Radient Flux

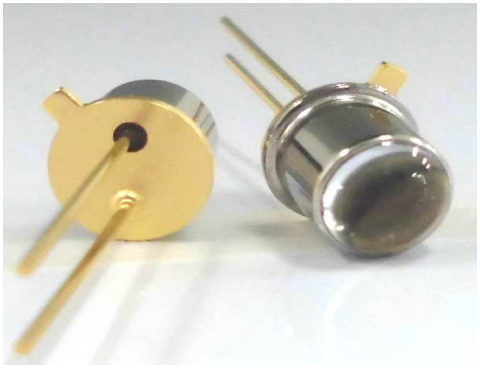


Relavive Intensity vs Peak Wavelength



Radiation Pattern





RoHS COMPLIANT Pb Pb-Free

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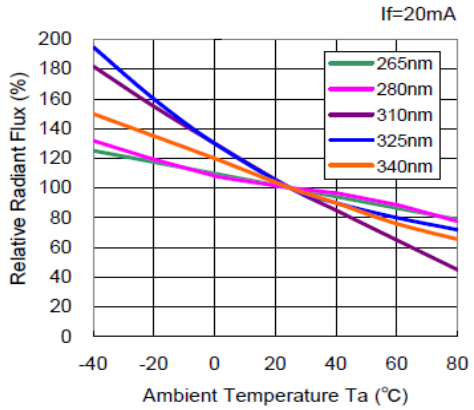
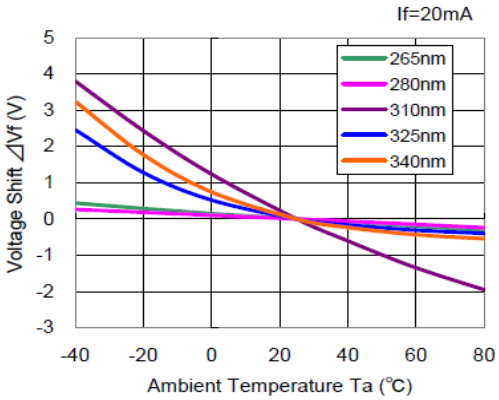
Radient Flux vs Ambient Temperature



Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature