EPIGAP Optronic GmbH
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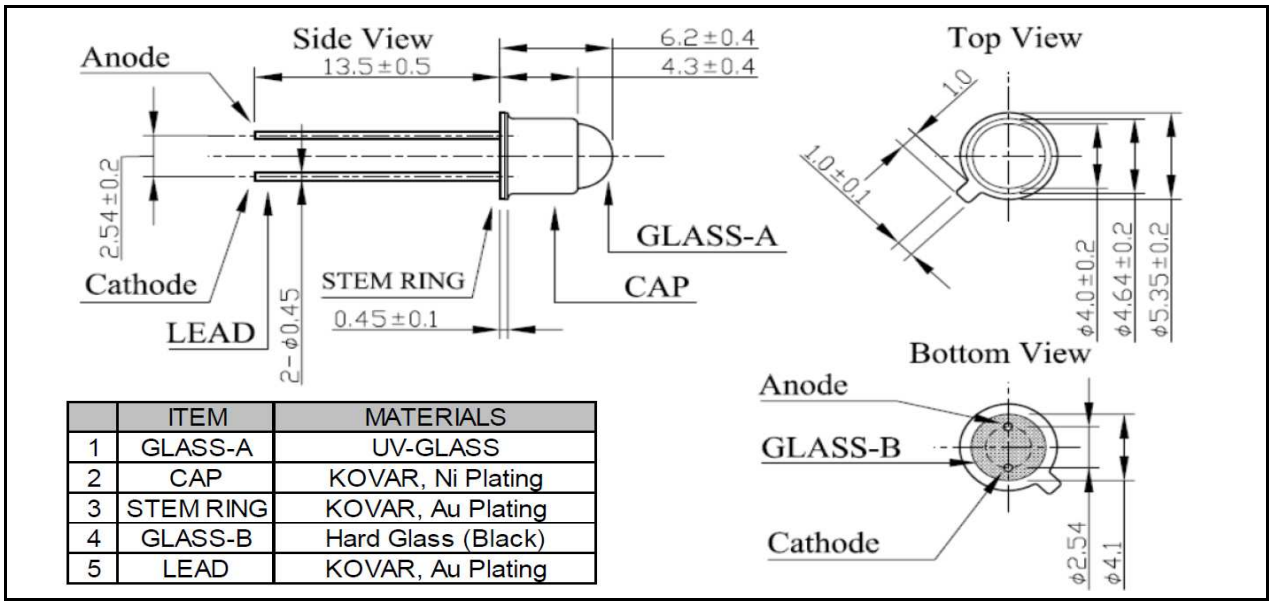
Data sheet

UV LED EOLD-340-023

Rev. 01, 2017

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



	ITEM	MATERIALS
1	GLASS-A	UV-GLASS
2	CAP	KOVAR, Ni Plating
3	STEM RING	KOVAR, Au Plating
4	GLASS-B	Hard Glass (Black)
5	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
Reverse voltage		V_R	>10	V
Reverse current		I_R	<1	µA
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		4		V
Radiant power	Φ_e	I_F= 20 mA		1.1		mW
Peak wavelength	λ_p	I_F= 20 mA	335	340	345	nm
Viewing angle	φ	I_F= 20 mA		24		deg.
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		9		nm
Rise time / fall time*	t_r, t_f	I_F= 200 mA		12; 8		ns

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

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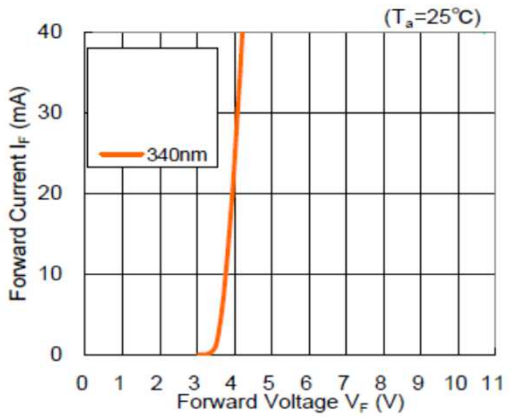
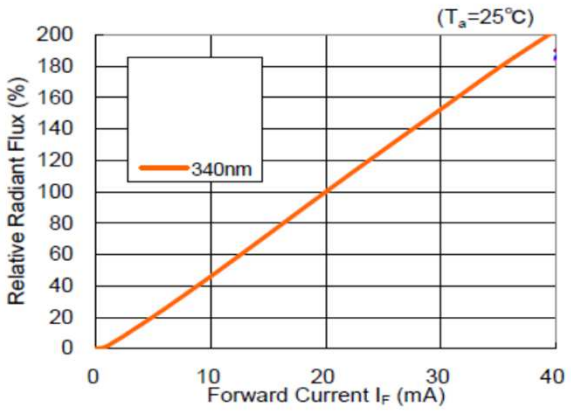
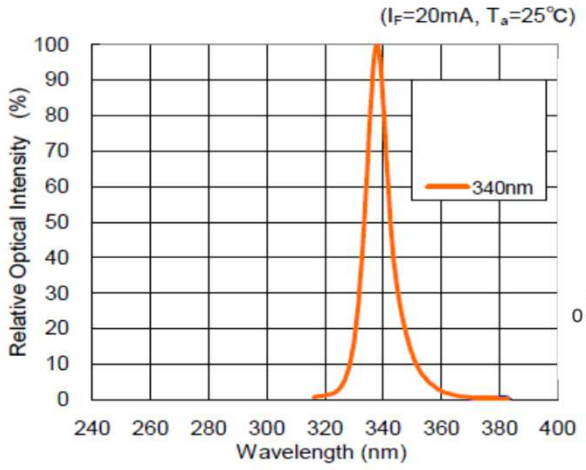
Forward Current vs Forward Voltage



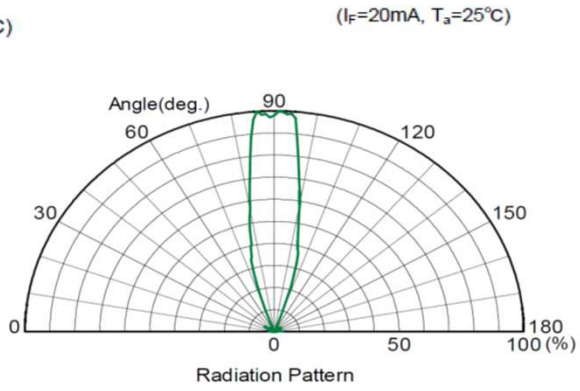
Radiant Flux vs Forward Current



Relavive Intensity vs Peak Wavelength



Radiation Pattern



RoHS COMPLIANT Pb Pb-Free

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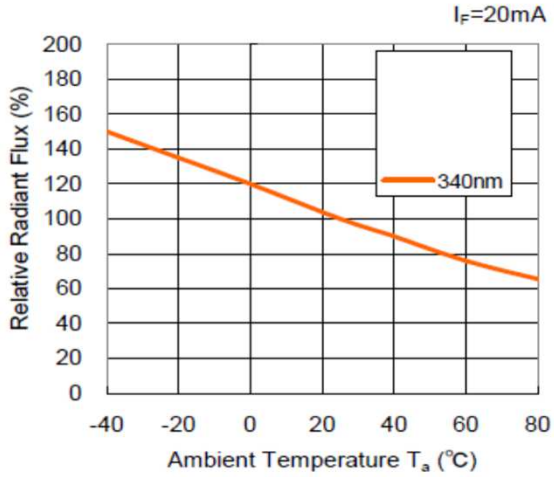
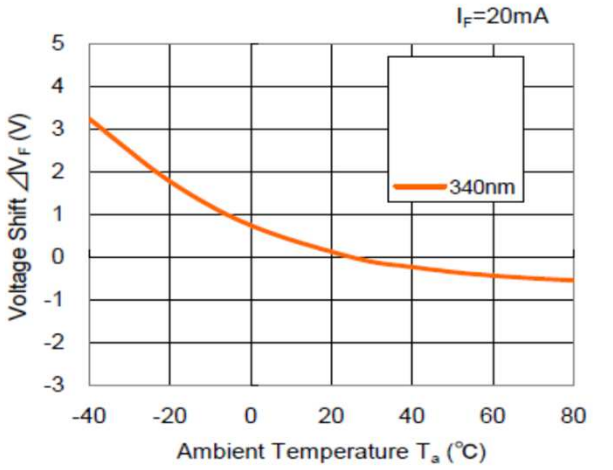
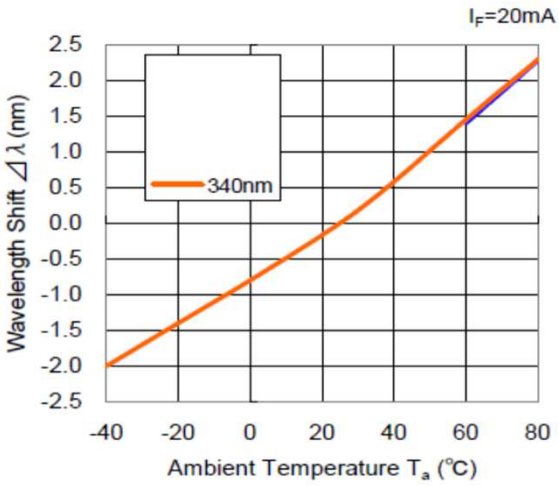
Radiant Flux vs Ambient Temperature



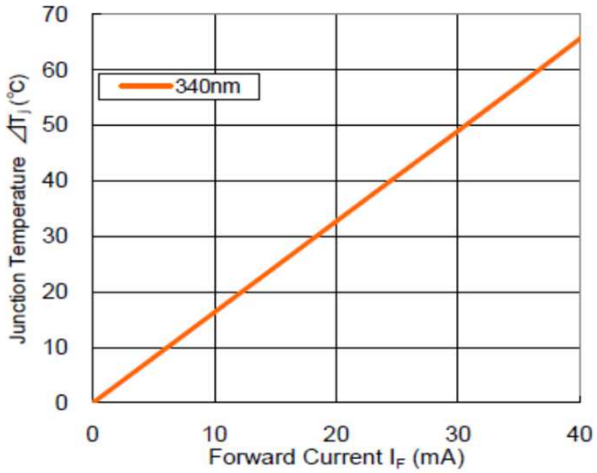
Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature



Junction Temperature vs Forward Current



Art. No. 134 052

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