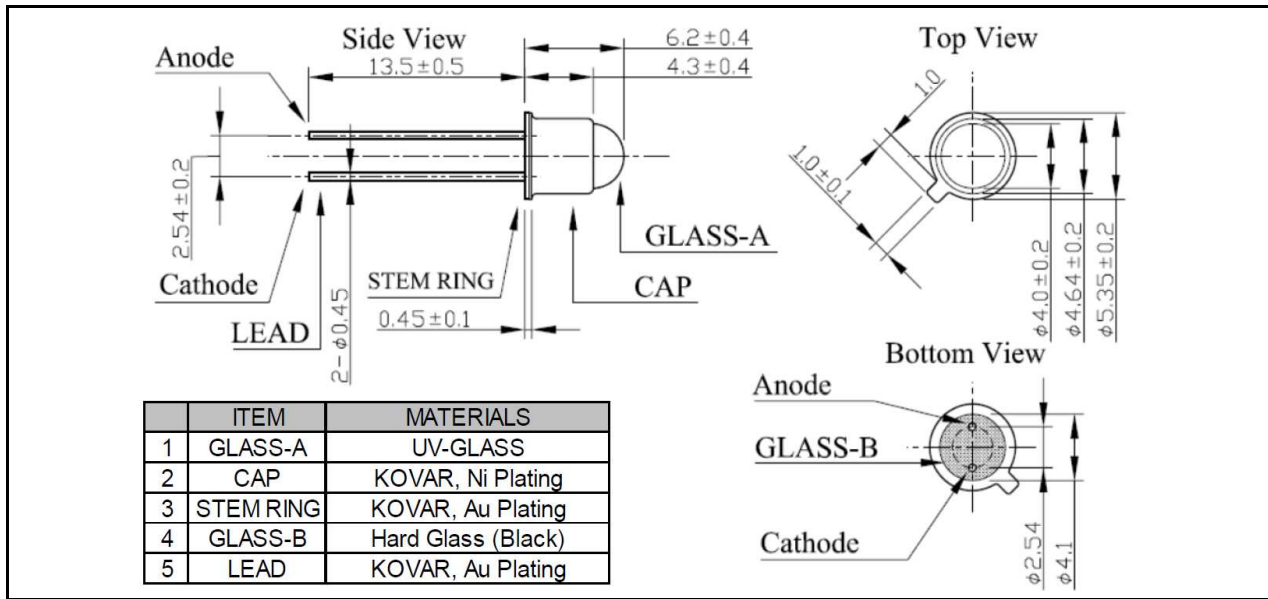


Data sheet

UV LED

EOLD-310-023

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



Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	40	mA
Reverse voltage	I _R =10 μA	V _R	>10	V
Reverse current	V _R =5 V	I _R	<1	μA
Operating temperature range		T _{amb}	-30 to +80	°C
Storage temperature range		T _{stg}	-40 to +100	°C
Flow lead soldering temperature	< 5 s	T _{slg}	250	°C
Manual lead 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		0.6		mW
Peak wavelength	λ _p	I _F = 20 mA	305	310	315	nm
FWHM	Δλ _{0.5}	I _F = 20 mA		15		nm
Viewing angle	φ	I _F = 20 mA		24		deg.
Rise time / fall time*	t _r , t _f	I _F = 200 mA		16; 8		ns

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

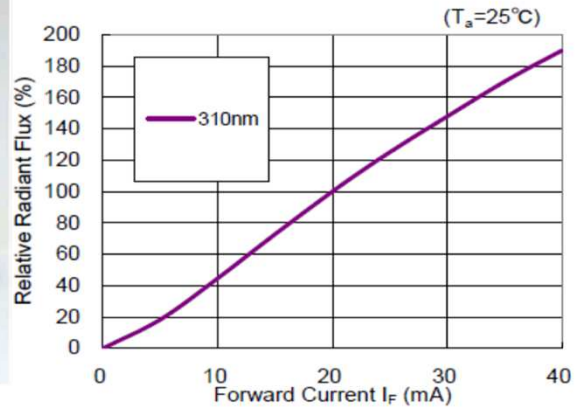
Data sheet

UV LED

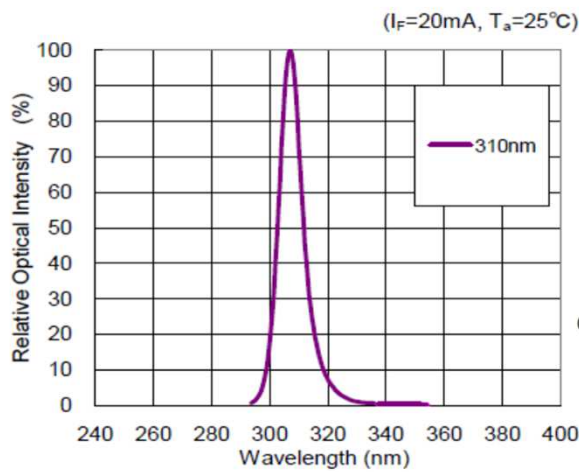
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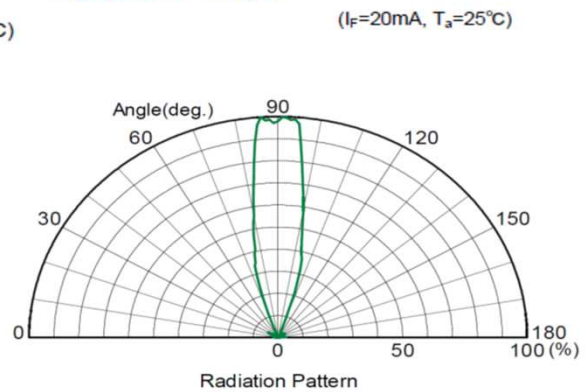
Radiant Flux vs Forward Current



Relative Intensity vs Peak Wavelength



Radiation Pattern

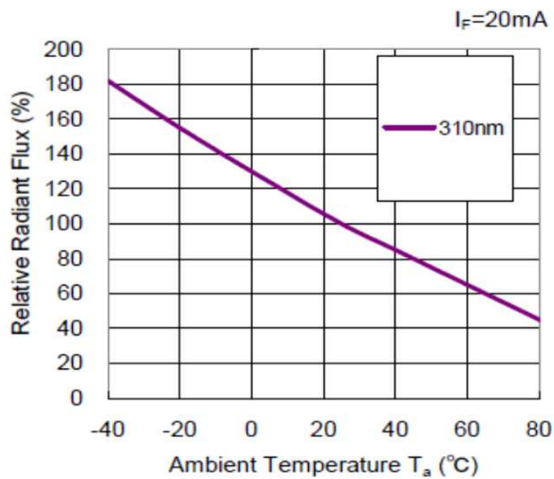


Data sheet

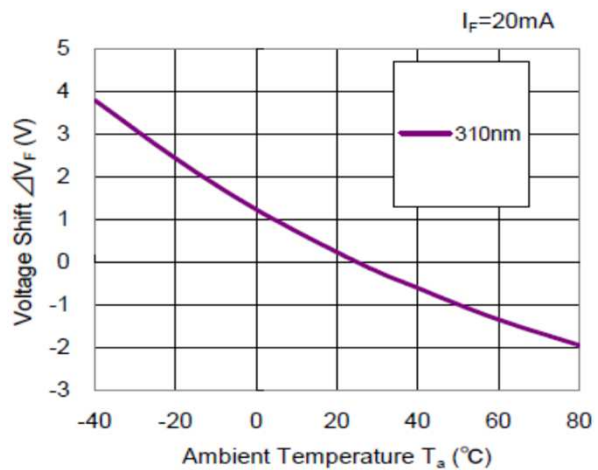
UV LED

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Radiant Flux vs Ambient Temperature



Voltage Shift vs Ambient Temperature



Wavelength Shift vs Ambient Temperature

