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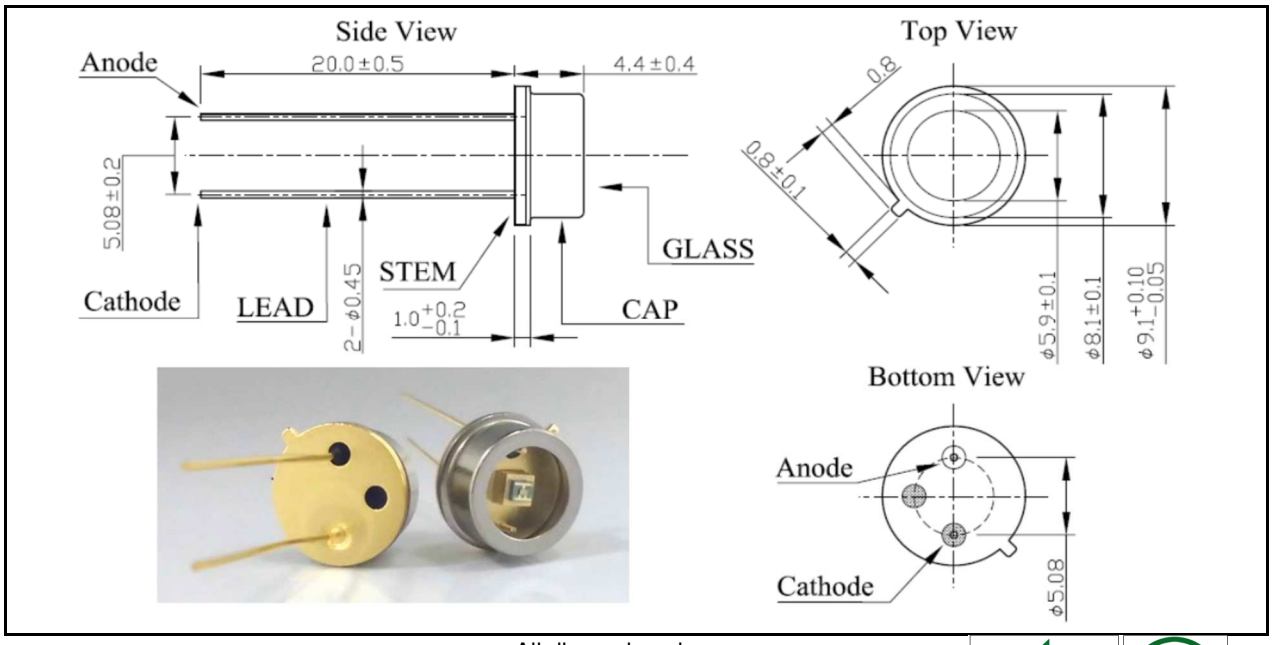
Data sheet

UV LED — EOLD-325-093-1

Rev. 02, 2020

Radiation	Type	Case
Ultraviolet (UVA)	AlGaN	metal TO-39 with flat window



All dimensions in mm

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		4.5		V
Radiant power	Φ_e	I_F= 20 mA		1.7		mW
Peak wavelength	λ_p	I_F= 20 mA	320	325	330	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		11		nm
Viewing angle	φ	I_F= 20 mA		±57		deg.

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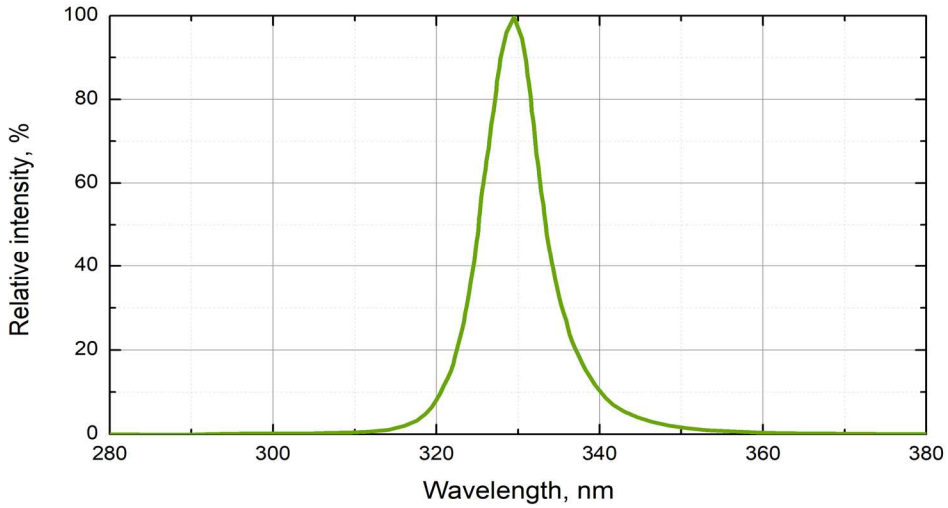
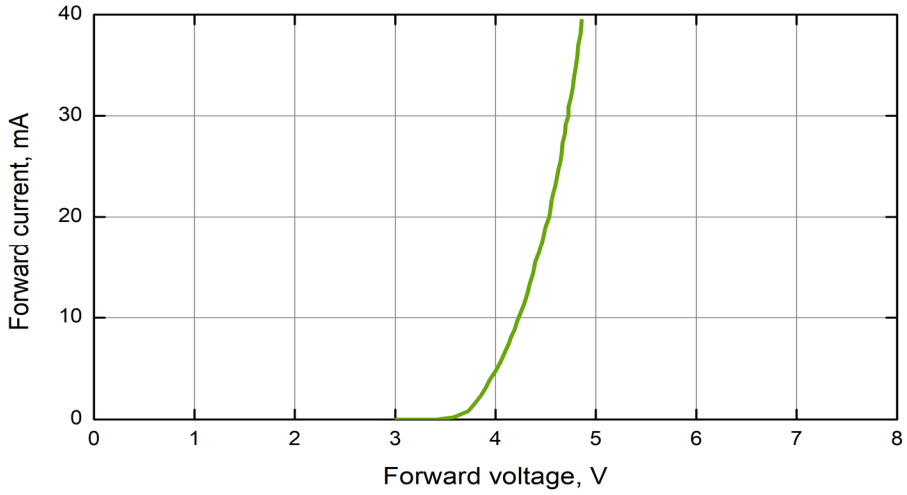


Spectrum @ 20 mA



Forward current vs. forward voltage

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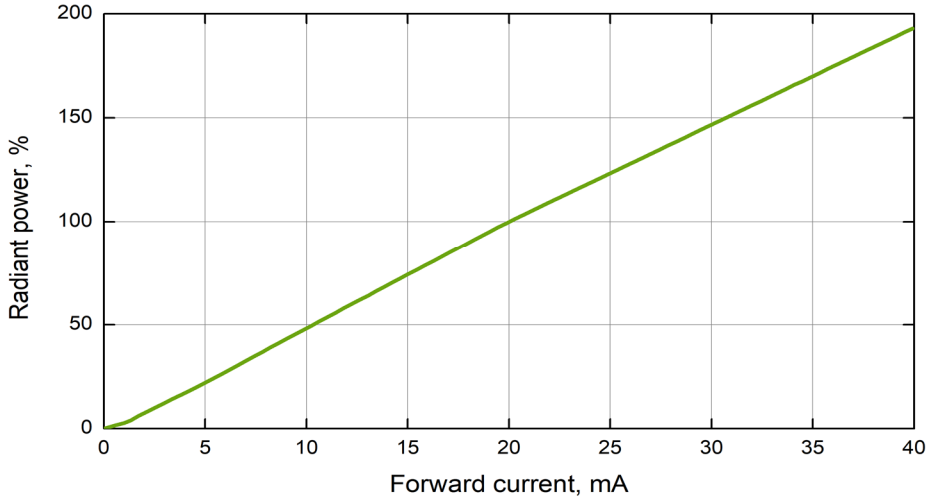
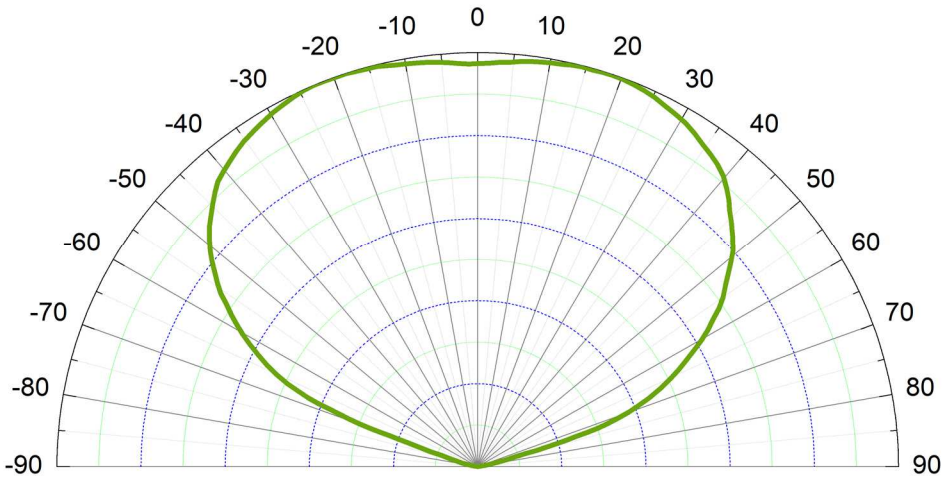


Radiant power vs. forward current



Radiation pattern

Art. No. 134 059