

EPIGAP Optronik GmbH

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Data sheet

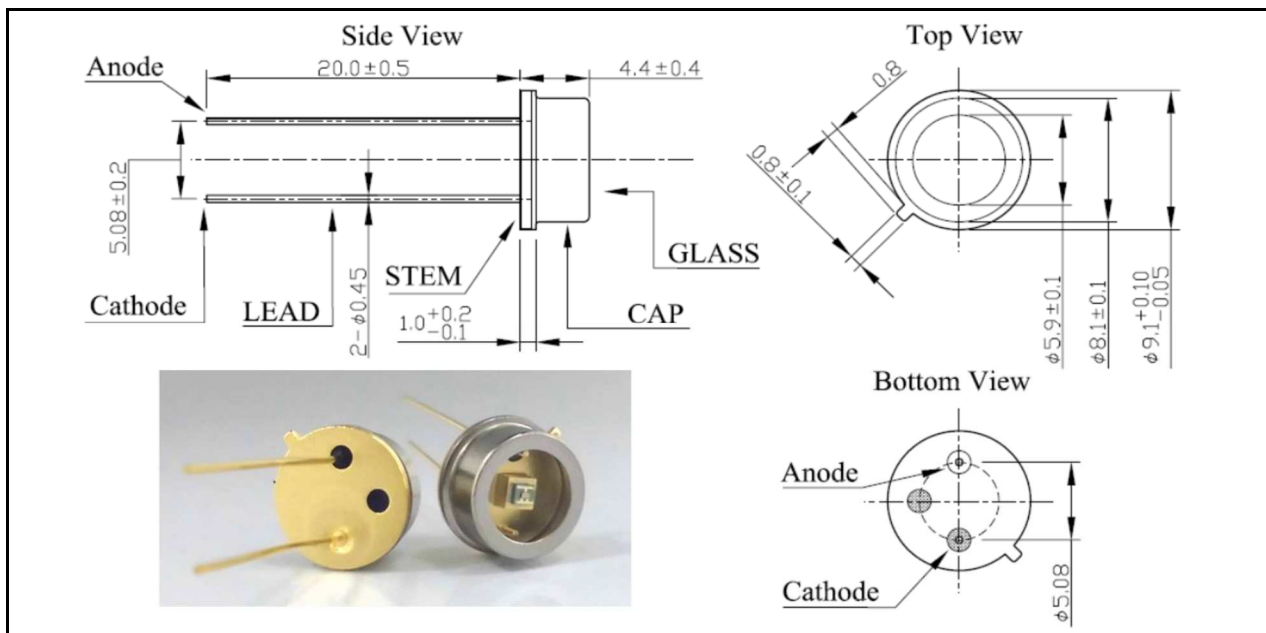
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UV LED

EOLD-340-093-1

Rev. 04, 2020

Radiation	Type	Case
Ultraviolet (UVA)	AlGaIn	metal TO-5 with flat window



All dimensions in mm

Maximum Ratings

$T_{amb} = 25^{\circ}\text{C}$, 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	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +100	$^{\circ}\text{C}$
Flow soldering temperature	< 5 s	T_{slg}	250	$^{\circ}\text{C}$
Manual soldering temperature	< 3 s	T_{slg}	350	$^{\circ}\text{C}$

Optical and Electrical Characteristics

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$		4		V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$		1.7		mW
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	335	340	345	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		9		nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		± 57		deg.

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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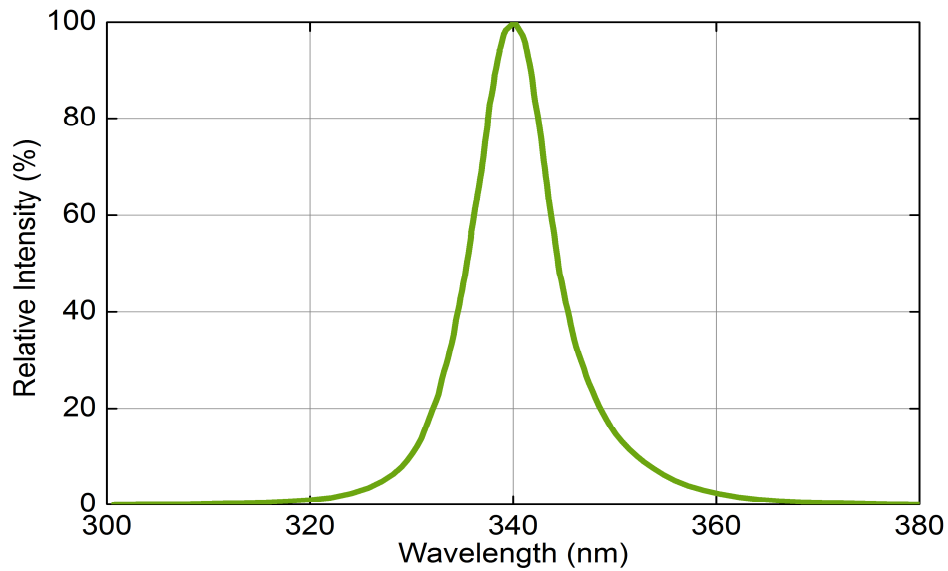
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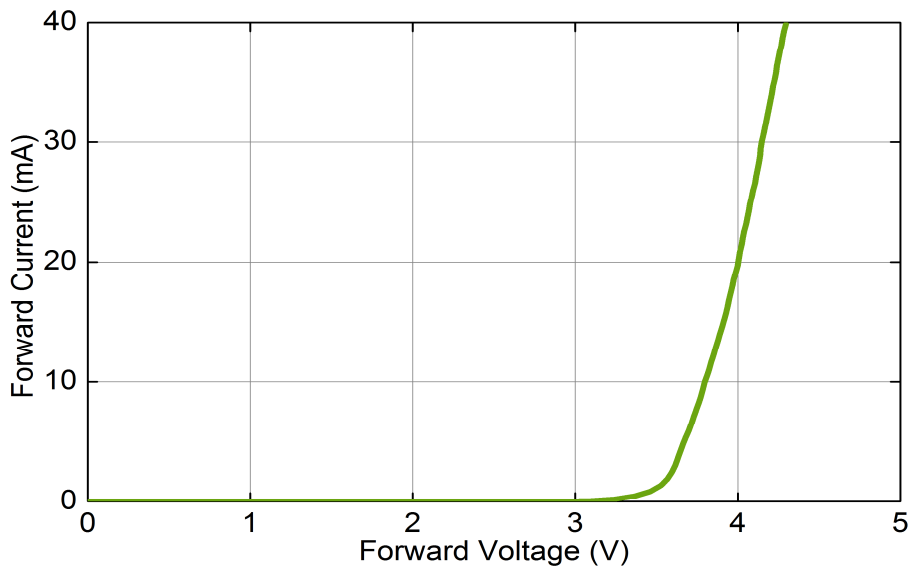
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Spectrum @ 20 mA



Forward current vs forward voltage



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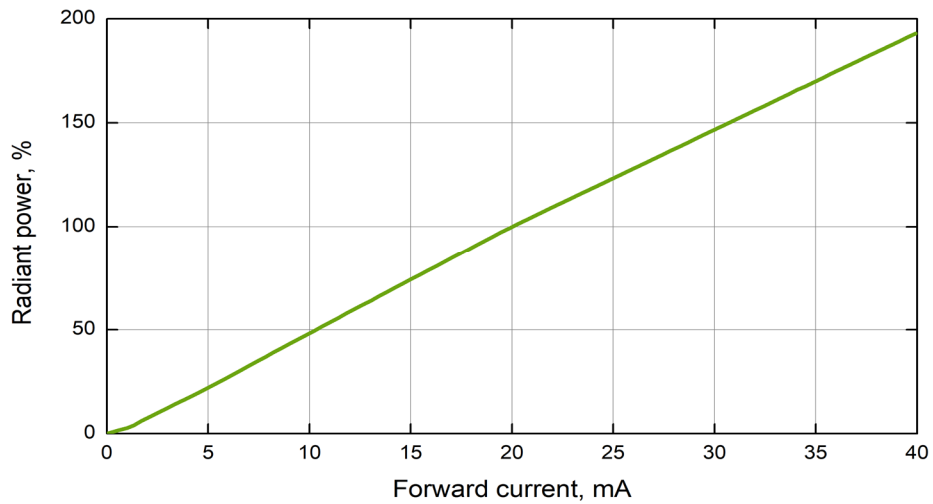
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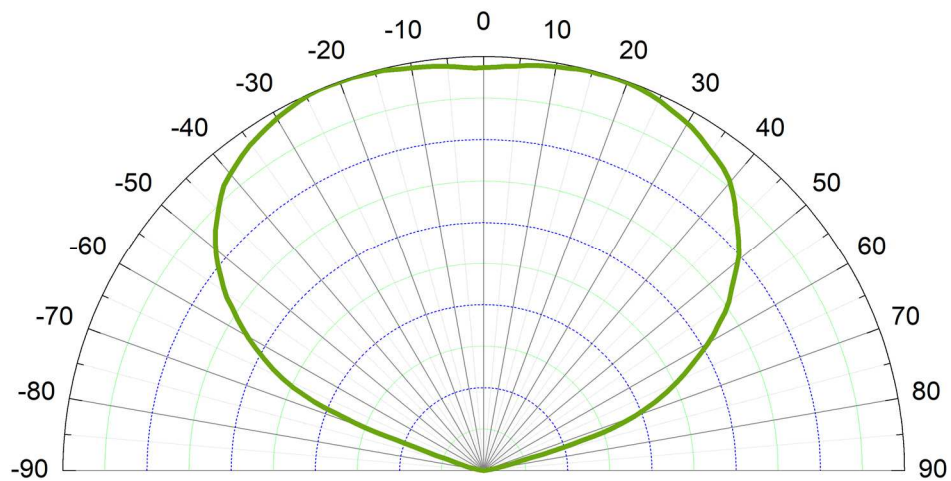
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Radiant power vs. forward current



Radiation pattern

Art. No. 134 014



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