

# EPIGAP Optronik GmbH

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## Data Sheet

### UV SMD LED

### EOLS-310-695

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 Rev. 04, 2020

Radiation	Type	Case
UVB	AlGaN	Ceramic SMD 3535 (1414), flat top

Unit: mm

**Applications:**

- Analytical instruments: biochemical, medical, and scientific analysis
- Photo catalyst
- Medical phototherapy
- UV curing: spot bonding, printing, film coating and general purpose

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		$I_F$	150	mA
Junction temperature		$T_J$	90	$^{\circ}\text{C}$
Operating temperature range		$T_{amb}$	-30 to +85	$^{\circ}\text{C}$
Storage temperature range	no condensation	$T_{stg}$	-40 to +85	$^{\circ}\text{C}$
Thermal resistance junction-ambient		$R_{th}$	20	K/W

### Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	$V_F$	$I_F = 100 \text{ mA}$		5.3		V
Viewing half angle	$\varphi$	$I_F = 100 \text{ mA}$		120		deg
Radiant power	$\Phi_e$	$I_F = 100 \text{ mA}$	7	12	18	mW
Peak wavelength	$\lambda_p$	$I_F = 100 \text{ mA}$	303	308	313	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 100 \text{ mA}$		15		nm



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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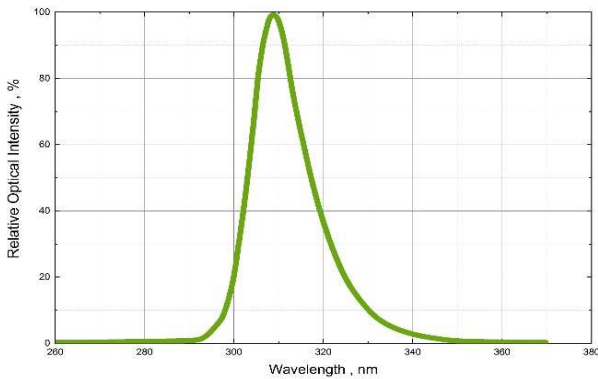


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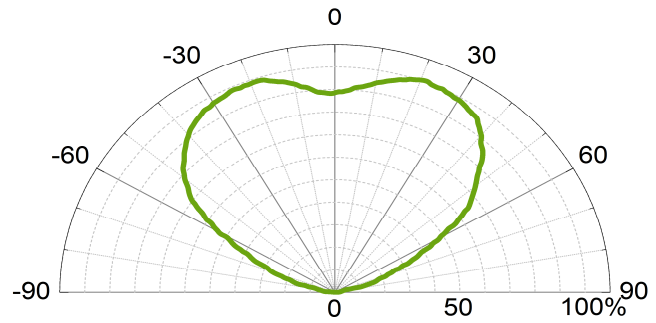
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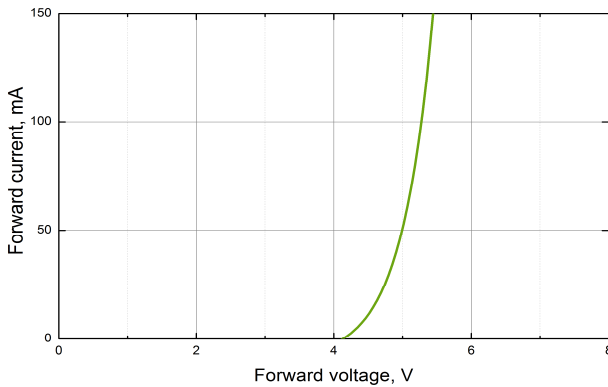
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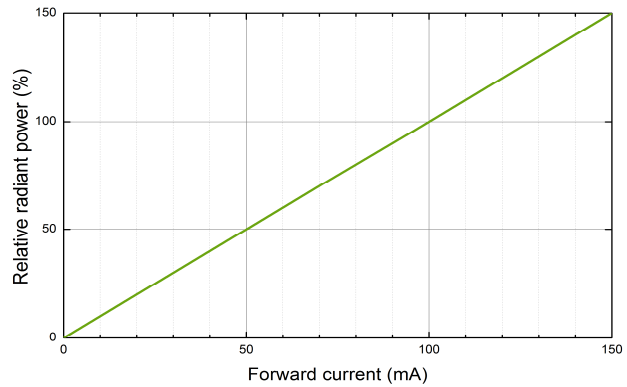
Spectrum at 100 mA



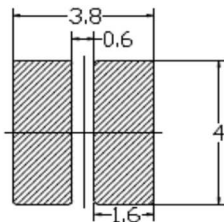
Radiation pattern



Forward current vs forward voltage

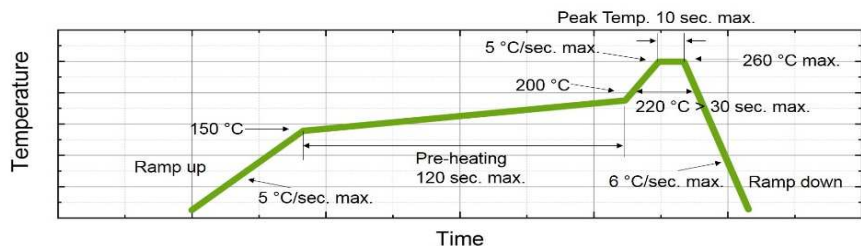


Radiant power vs forward current



Unit : mm

Recommended solder pad



Recommended reflow soldering profile



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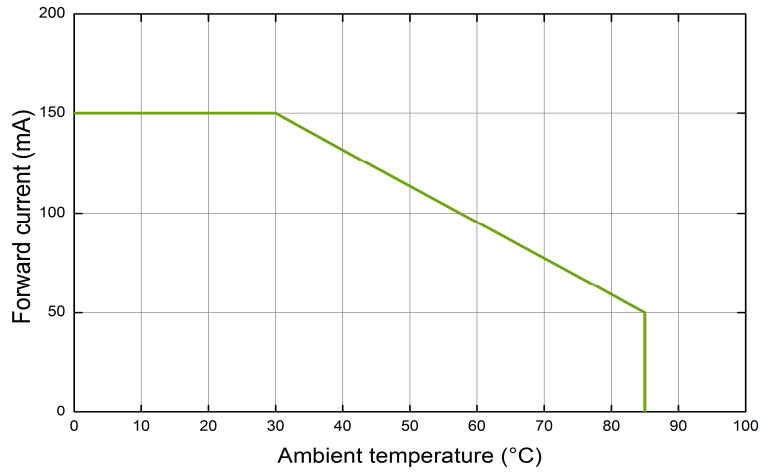


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**Derating curve**



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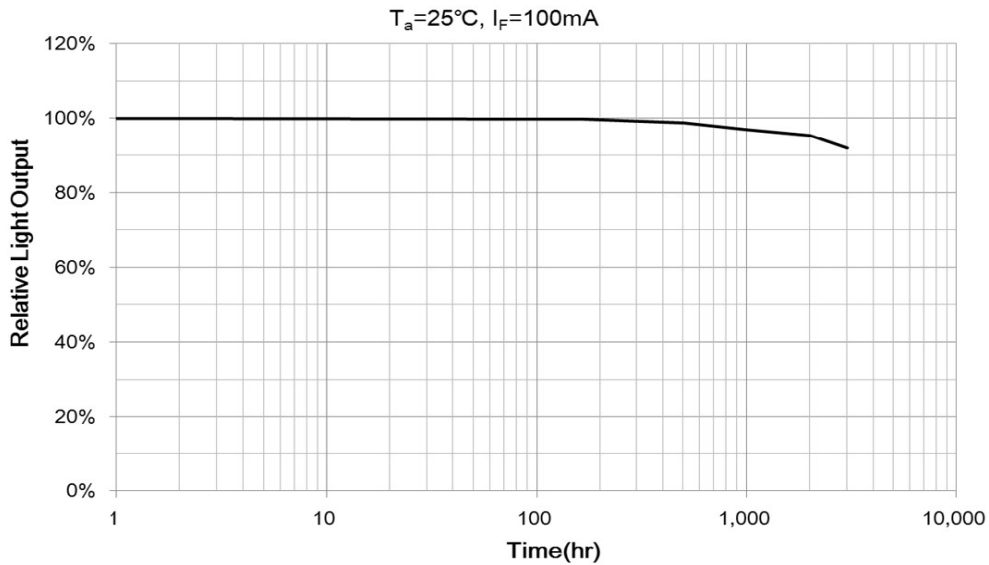


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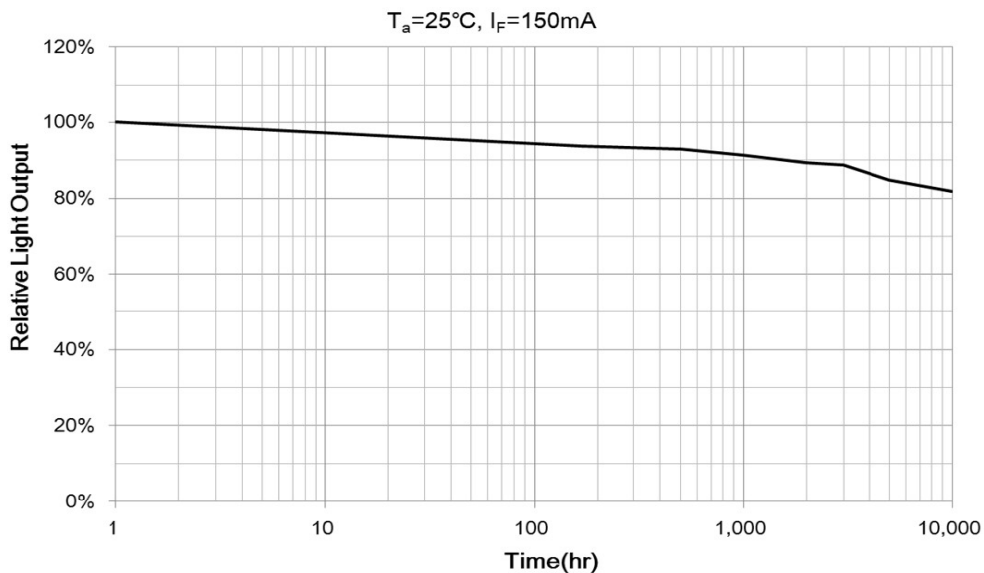
### UV SMD LED

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#### Life expectancy data @ 100 mA



#### Life expectancy data @ 150 mA

Art. No. 133 200



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