

# EPIGAP Optronik GmbH

Koepenicker Str. 325  
 D-12555 Berlin  
 Fon: +49 (0)30 657637 60  
 Fax: +49 (0)30 657637 70  
 sales@epigap-optronic.de



## Data Sheet

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### UV SMD LED

### EOLS-310-697

Rev. 07, 2020

Radiation	Type	Case
Deep UV (UVB)	AlGaIn	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		$I_F$	600	mA
Operating temperature range		$T_{amb}$	-30 to +85	$^{\circ}\text{C}$
Storage temperature range	no condensation	$T_{stg}$	-40 to +85	$^{\circ}\text{C}$
Soldering temperature	within 5 sec	$T_{sol}$	260	$^{\circ}\text{C}$
Thermal resistance junction-ambient		$R_{th}$	15	K/W

#### Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	$V_F$	$I_F = 350 \text{ mA}$		5.5		V
Radiant power	$\Phi_e$	$I_F = 350 \text{ mA}$	36	50		mW
Peak wavelength	$\lambda_p$	$I_F = 350 \text{ mA}$	303	308	313	nm
FWHM	$\Delta\lambda_{0,5}$	$I_F = 350 \text{ mA}$		15	20	nm
Viewing angle	$\phi$	$I_F = 350 \text{ mA}$		120		deg

\*Radiant power measurement tolerance is  $\pm 10\%$ .

\*\*Peak wavelength measurement tolerance is  $\pm 3 \text{ nm}$ .



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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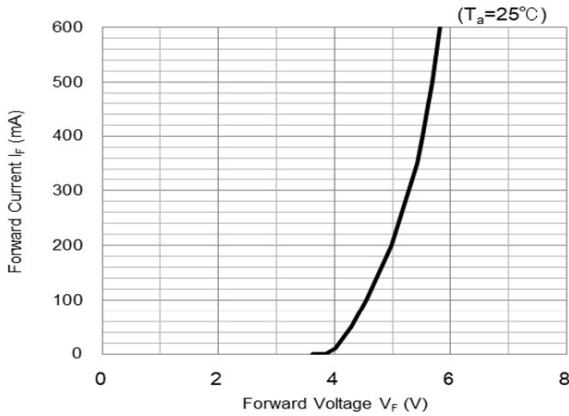


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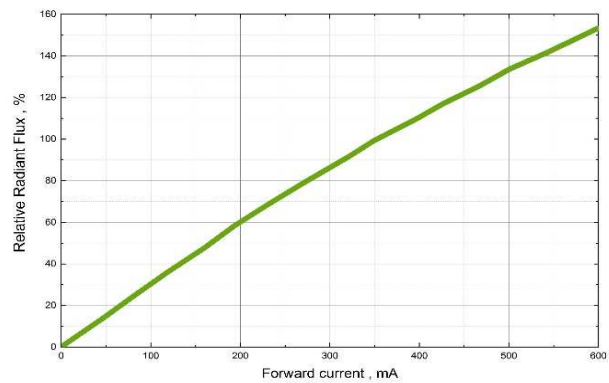
### UV SMD LED

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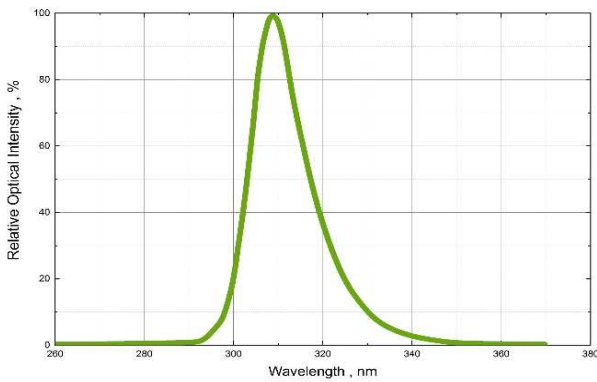
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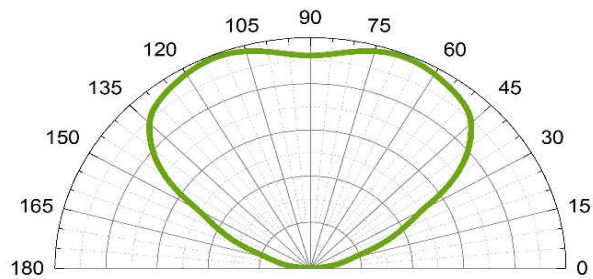
**Forward current vs forward voltage**  
 $T_a = 25^\circ\text{C}$



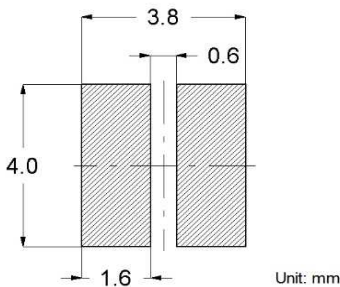
**Radiant power vs forward current**



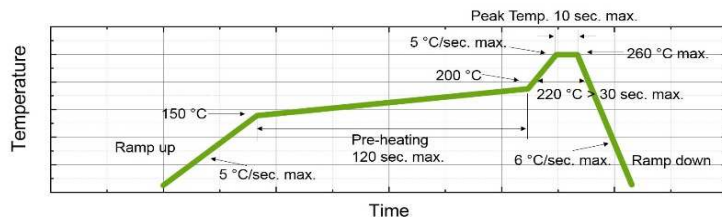
**Spectrum @ 350 mA**



**Radiation pattern**



**Recommended solder pad**



**Recommended reflow soldering profile**



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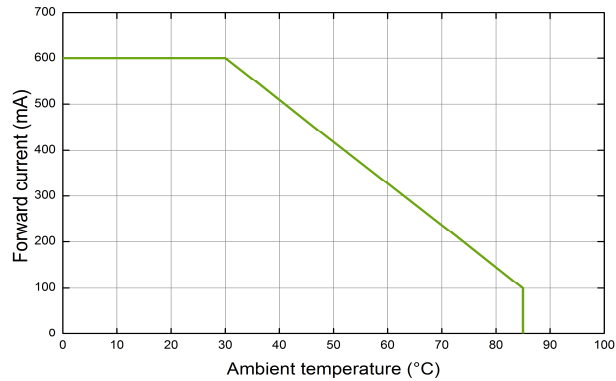


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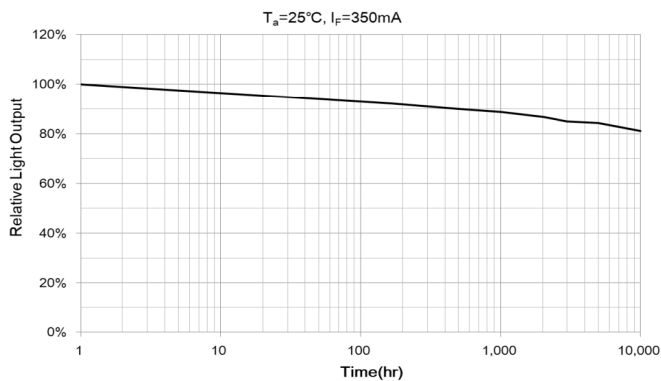
### UV SMD LED

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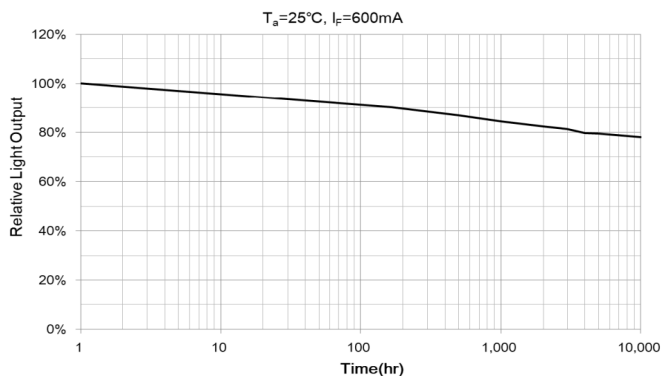
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Thermal derating curve



Life expectancy data @ 350 mA



Life expectancy data @ 600 mA

Art. No. 133 232



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