

# EPIGAP Optronic 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

page 1 of 4

### UV SMD LED

### EOLS-340-697

Rev. 04, 2020

Radiation	Type	Case
UVA	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		$I_F$	350	mA
Operating temperature range		$T_{amb}$	-30 to +85	$^{\circ}\text{C}$
Storage temperature range	no condensation	$T_{stg}$	-40 to +85	$^{\circ}\text{C}$
Junction temperature		$T_J$	260	$^{\circ}\text{C}$
Thermal resistance junction-ambient		$R_{th}$	10	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	6.5	V
Radiant power	$\Phi_e$	$I_F = 350 \text{ mA}$	32	44		mW
Peak wavelength	$\lambda_p$	$I_F = 350 \text{ mA}$	335	340	345	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 350 \text{ mA}$		10	15	nm
Viewing angle	$\phi$	$I_F = 350 \text{ mA}$		120		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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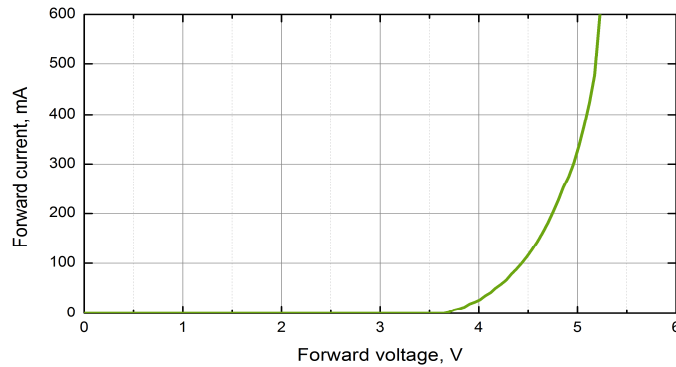


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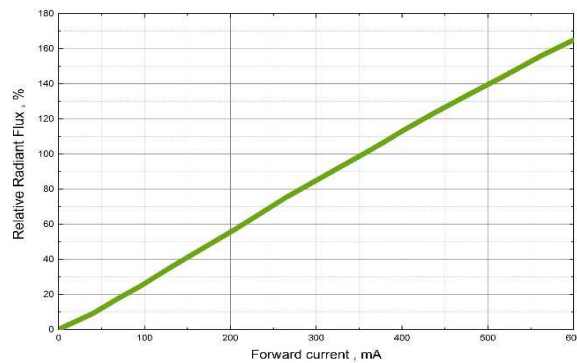
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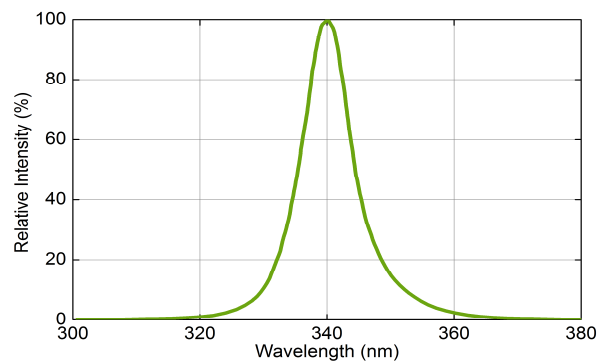
page 2 of 4  
Rev. 04, 2020



Forward current vs forward voltage



Radiant power vs forward current



Spectrum @ 350 mA



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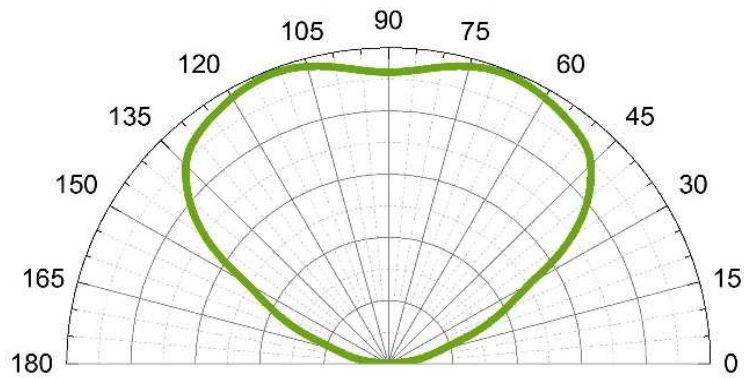
## Data Sheet

page 3 of 4

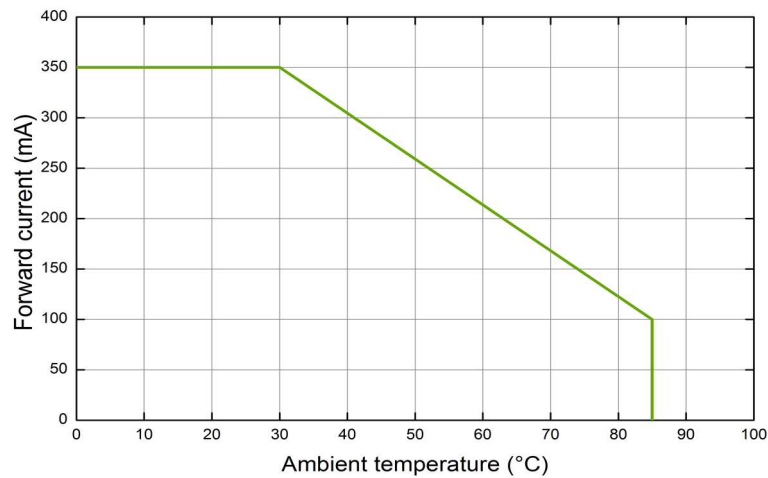
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Rev. 04, 2020



Radiation pattern



Thermal derating curve



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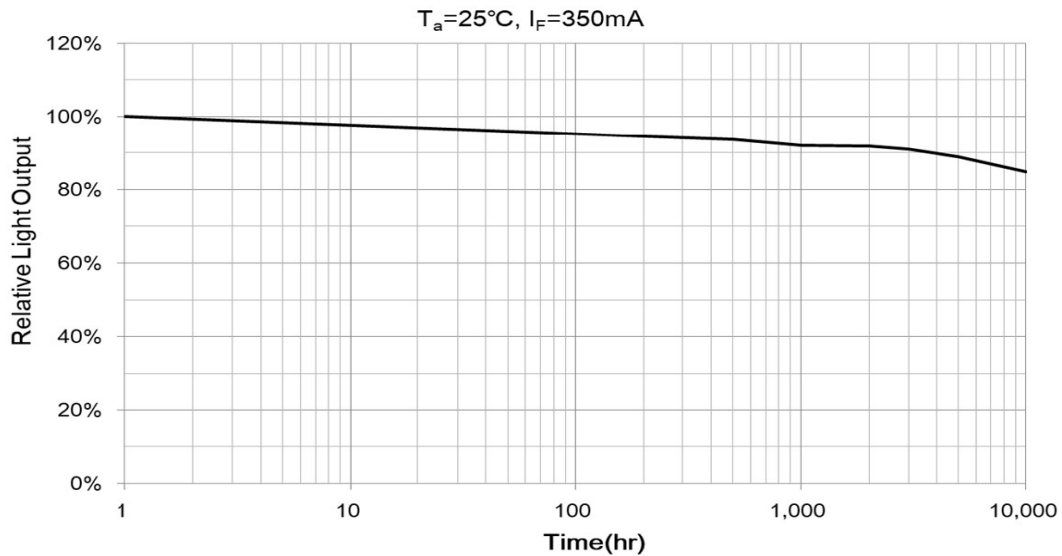


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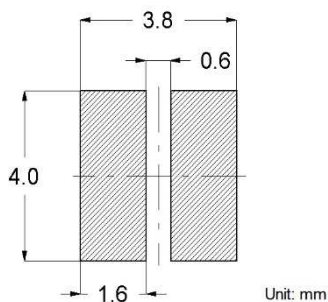
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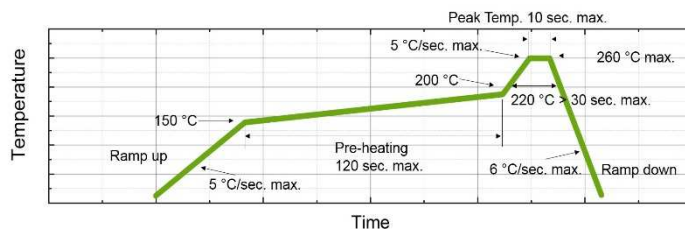
page 4 of 4  
Rev. 04, 2020



Life expectancy data (LED on Al heatsink with fan)



Recommended solder pad



Reflow soldering profile

Art. No. 133 234



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