

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-340-695

Rev. 03, 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	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	$I_F = 100\text{ mA}$		4.5		V
Radiant power	Φ_e	$I_F = 100\text{ mA}$	7	12	18	mW
Peak wavelength	λ_p	$I_F = 100\text{ mA}$	335	340	345	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 100\text{ mA}$		9		nm
Viewing half angle	φ	$I_F = 100\text{ mA}$		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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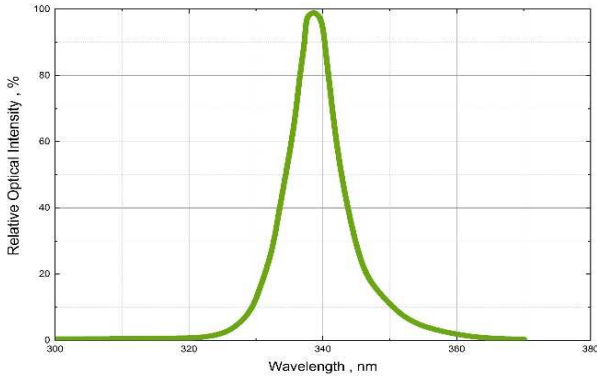
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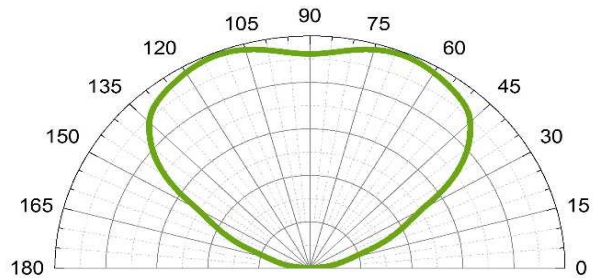
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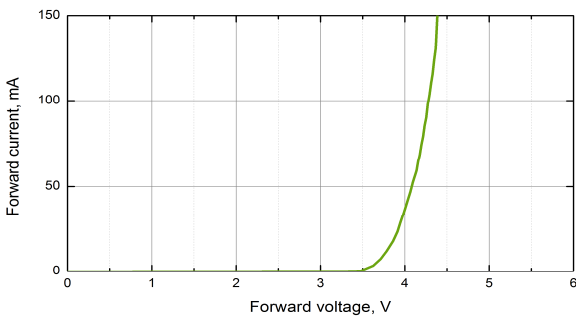
EOLS-340-695



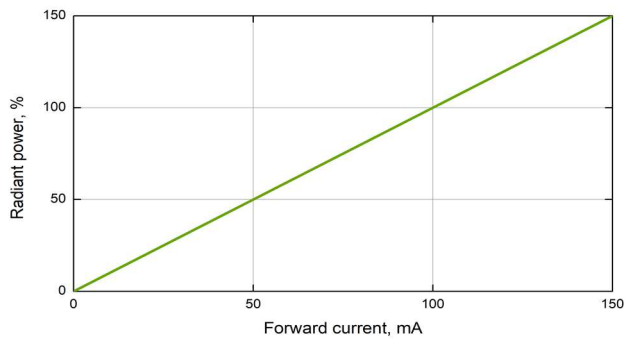
Spectrum



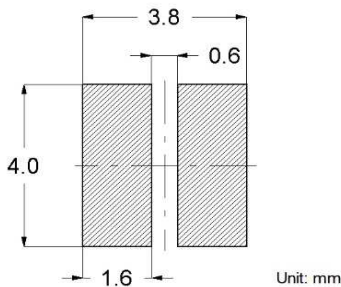
Radiation pattern



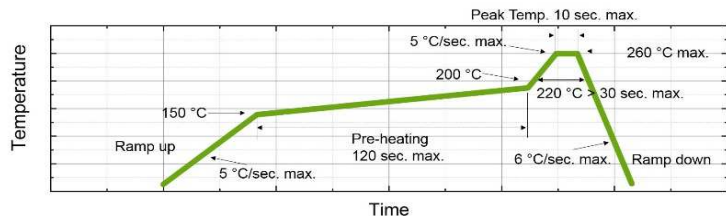
Forward current vs forward voltage



Radiant power vs forward current



Recommended solder pad



Reflow soldering profile



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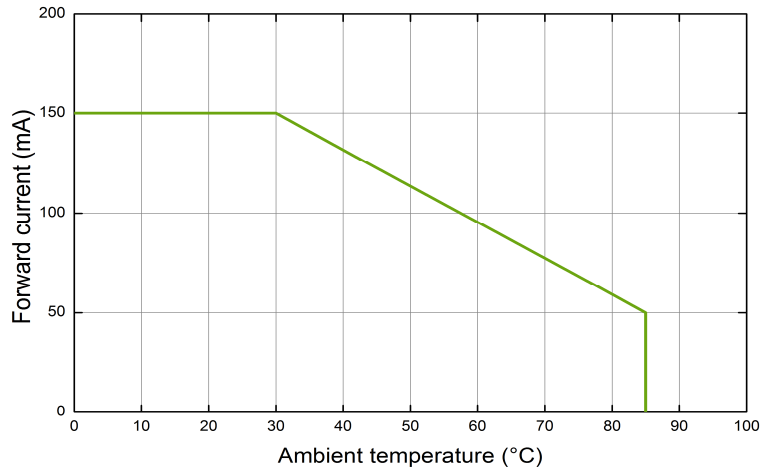


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Derating curve

Art. No. 133 237



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