

EPIGAP Optronik GmbH

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Data Sheet

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UV SMD LED

EOLS-325-697

Rev. 04, 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	350	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	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V_F	$I_F = 350 \text{ mA}$		5.0		V
Radiant power	Φ_e	$I_F = 350 \text{ mA}$	30	47		mW
Peak wavelength	λ_p	$I_F = 350 \text{ mA}$	320	325	330	nm
FWHM	$\Delta\lambda_{0,5}$	$I_F = 350 \text{ mA}$		15	20	nm
Viewing angle	ϕ	$I_F = 350 \text{ mA}$		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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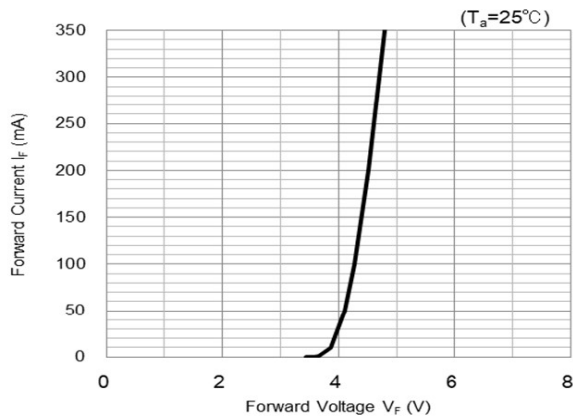
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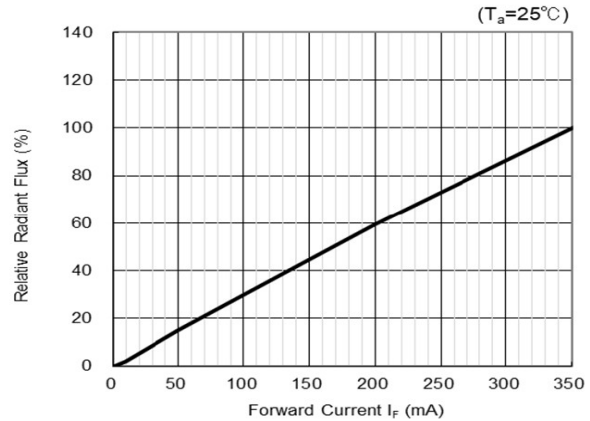
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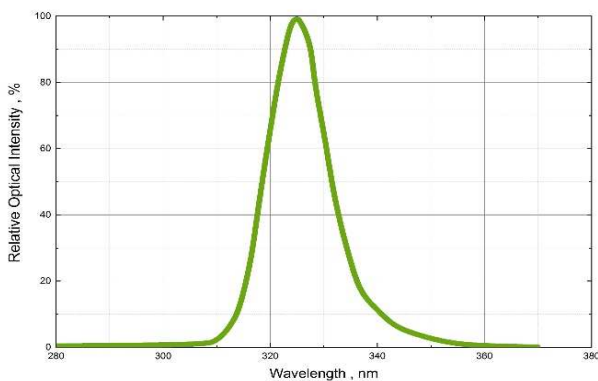
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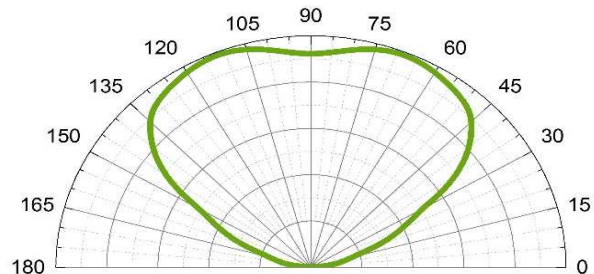
Forward current vs forward voltage



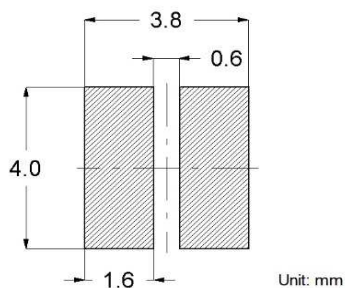
Radiant power vs forward current



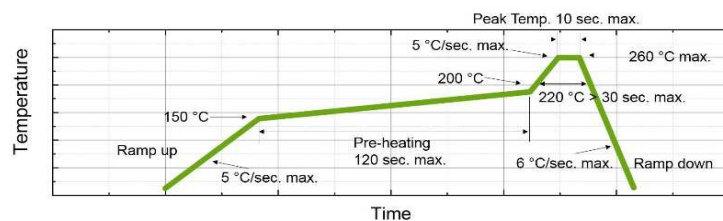
Spectrum @ 350 mA



Radiation pattern



Recommended solder pad



Reflow soldering profile



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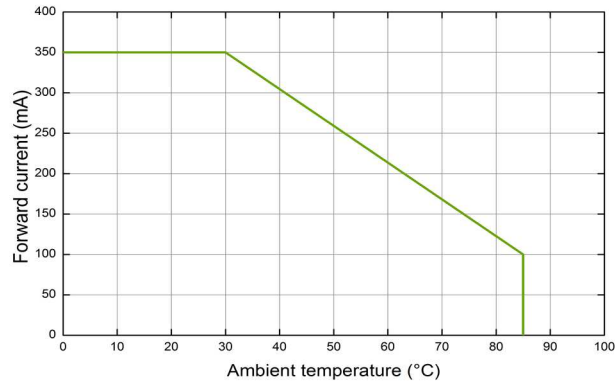
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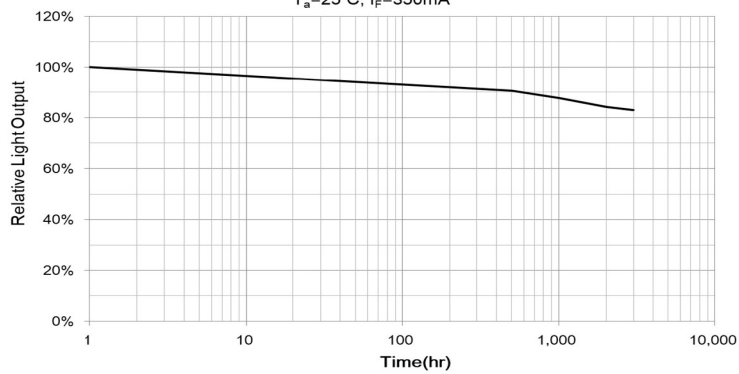
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Thermal derating curve

$T_a=25^{\circ}\text{C}$, $I_F=350\text{mA}$



Life test @ 350 mA

Art. No. 133 233



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