

EPIGAP Optronik GmbH

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Data Sheet

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UV SMD LED

EOLS-310-637

Rev. 03, 2020

Radiation	Type	Case
UVB	AlGaN	Metal sealed SMD 3535 (1414), lens

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
Junction temperature		T_J	100	$^{\circ}\text{C}$
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	$I_F = 350 \text{ mA}$		5.9		V
Radiant power*	Φ_e	$I_F = 350 \text{ mA}$	31	43		mW
Peak wavelength**	λ_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	ϕ	$I_F = 350 \text{ mA}$		35		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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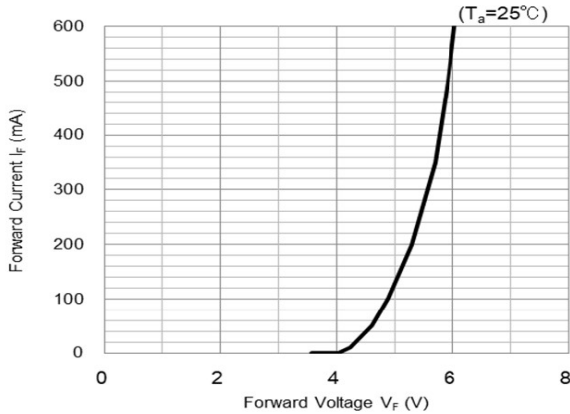
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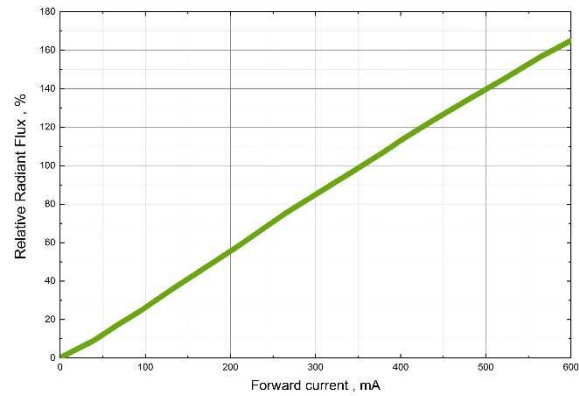
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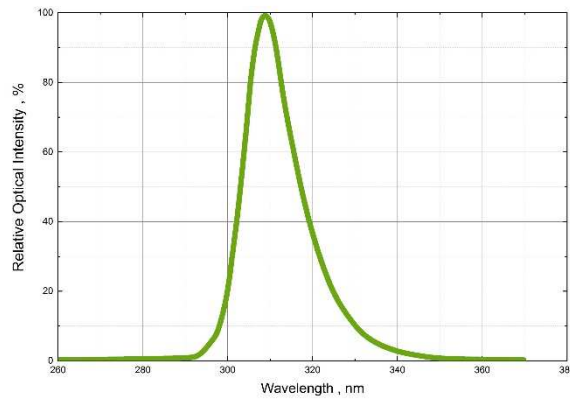
EOLS-310-637



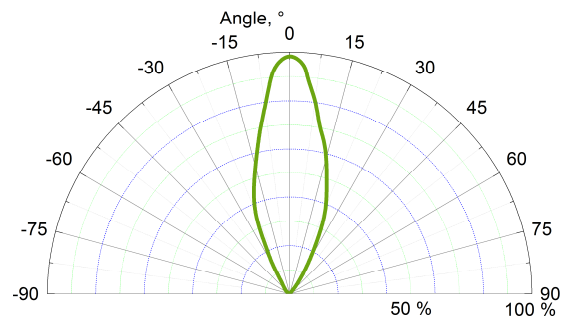
Forward current vs forward voltage



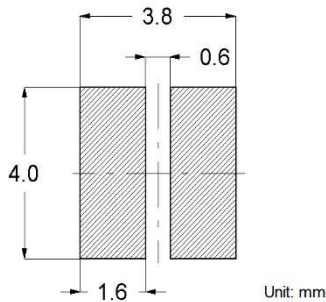
Radiant power vs forward current



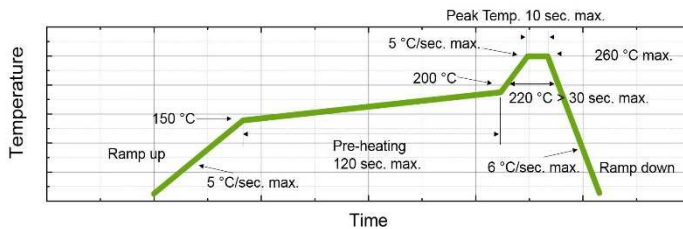
Spectrum @ 350 mA



Radiation pattern



Recommended solder pad



Reflow soldering profile



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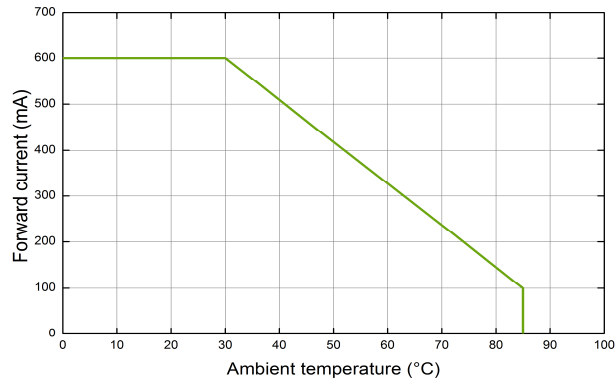
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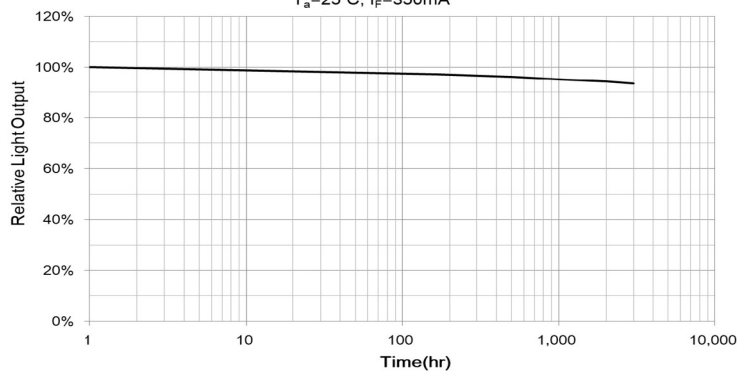
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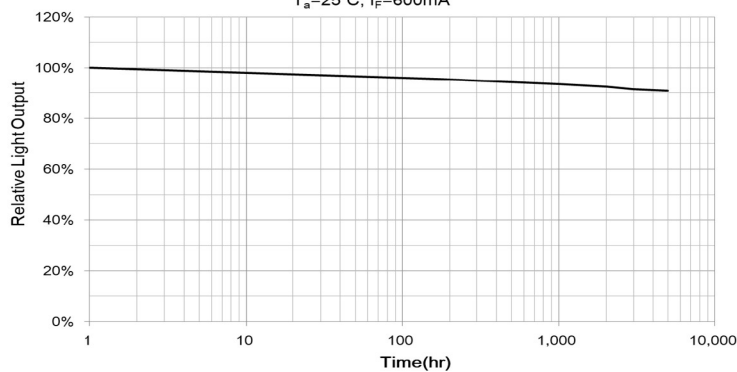
Thermal derating curve

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



Life test @ 350 mA

$T_a=25^{\circ}\text{C}$, $I_F=600\text{mA}$



Life test @ 600 mA

Art. No. 133 274



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