EPIGAP Optronic GmbH
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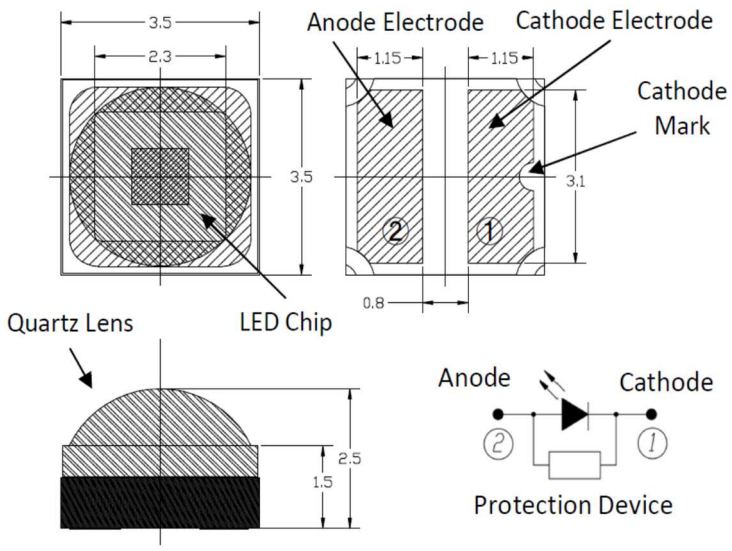
Data Sheet

UV SMD LED — EOLS-310-667

Rev. 02, 2020

Radiation	Type	Case
UVA	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°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	600	mA
Junction temperature		T_J	100	°C
Operating temperature range		T_{amb}	-30 to +85	°C
Storage temperature range	no condensation	T_{stg}	-40 to +85	°C

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V_F	I_F= 350 mA		5.9		V
Radiant power*	Φ_e	I_F= 350 mA	33	47		mW
Peak wavelength**	λ_p	I_F= 350 mA	303	308	313	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 350 mA		15	20	nm
Viewing angle	ϕ	I_F= 350 mA		65		deg

*Radiant power measurement tolerance is ±10 %.

**Peak wavelength measurement tolerance is ±3 nm.

RoHS COMPLIANT Pb Pb-Free

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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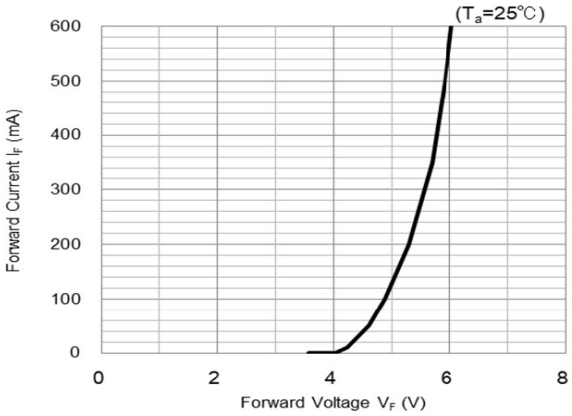
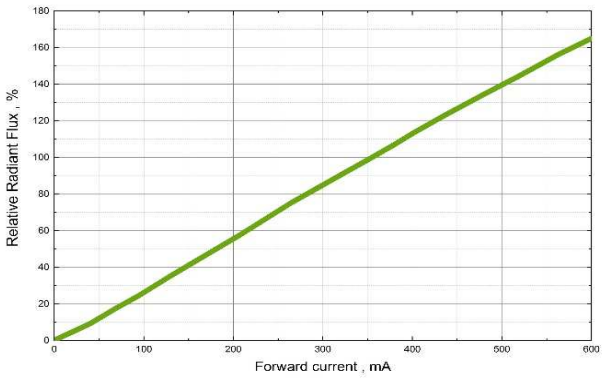
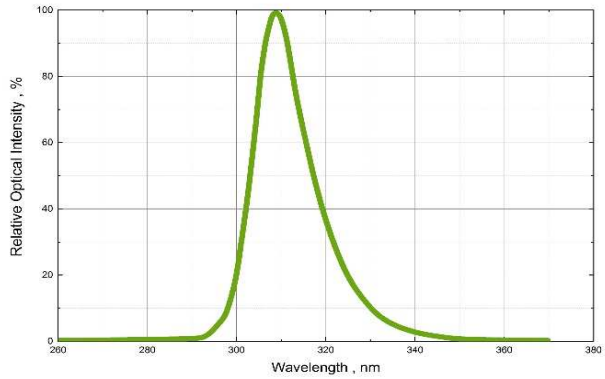
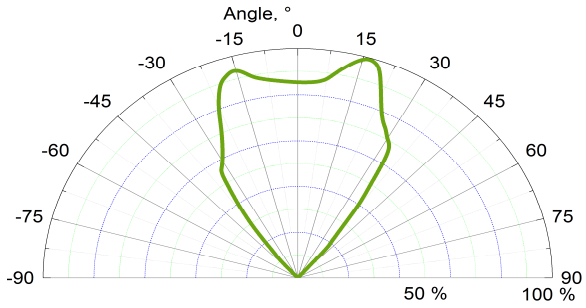




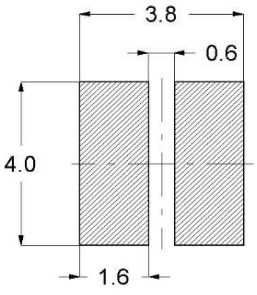
Radiant power vs forward current



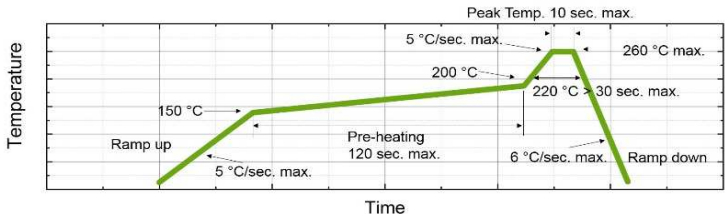
Spectrum @ 350 mA



Radiation pattern



Recommended solder pad



Reflow soldering profile

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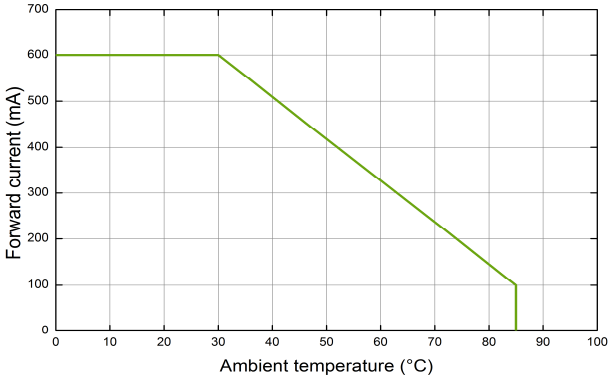
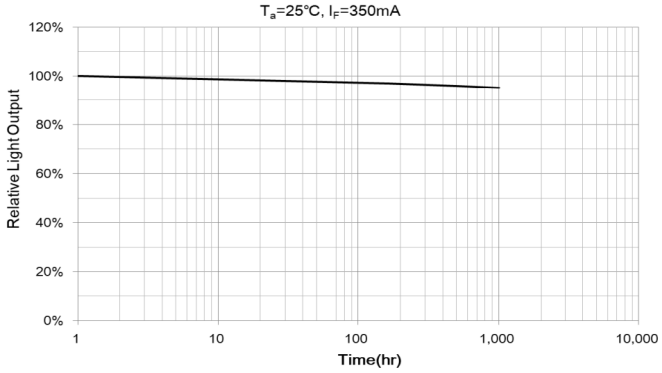
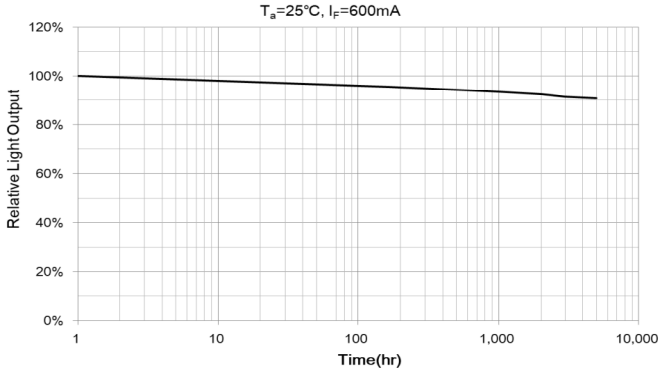


Thermal derating curve



Life test @ 350 mA



Life test @ 600 mA

Art. No. 133 275

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