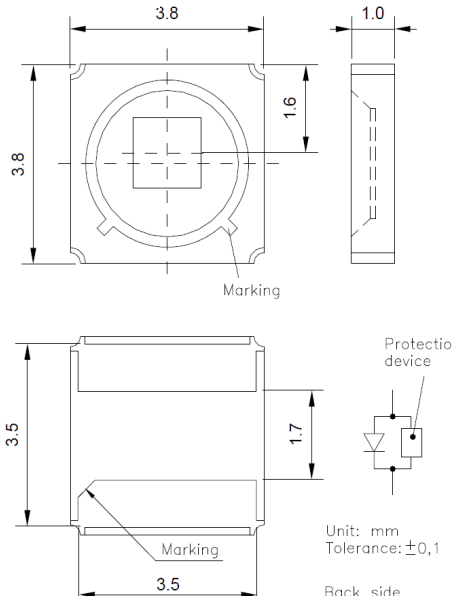


Data Sheet

High Power LED

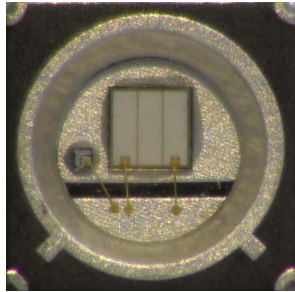
EOLS-470-496

Radiation	Type	Case
Blue	InAlGaN	SMD 3838 (1515)



Unit: mm
Tolerance: ±0,1

Back side



The picture shown is for illustration purpose only.
Actual product may vary due to product enhancement.

Description:

- Size 3.8 (W) x 3.8 (L) x 1.0 (H) mm
- Circuit substrate: AlN ceramics
- Marking at cathode
- Lead free solderable, soldering pads: silver plated
- Distance from bottom of SMD to chip top surface: 450±70 µm

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	350	mA
Peak forward current	t _p ≤ 80 ms, T=1 s	I _{FM}	1000	mA
Operating temperature range		T _{amb}	-40 to +85	°C
Storage temperature range		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	2.9	3.2	3.8	V
Forward voltage	V _F	I _F = 700 mA		3.8		V
Forward voltage	V _F	I _F = 1000 mA			4.0	V
Radiant power*	Φ _e	I _F = 350 mA	600			mW
Peak wavelength	λ _p	I _F = 350 mA		470		nm
Central wavelength	λ _C	I _F = 350 mA	465	470	475	nm
FWHM	Δλ _{0,5}	I _F = 350 mA		21		nm

* dΦ_e / dI_F > 0 at I_F = 0...I_{FM}. LEDs should never be operated with reverse bias!



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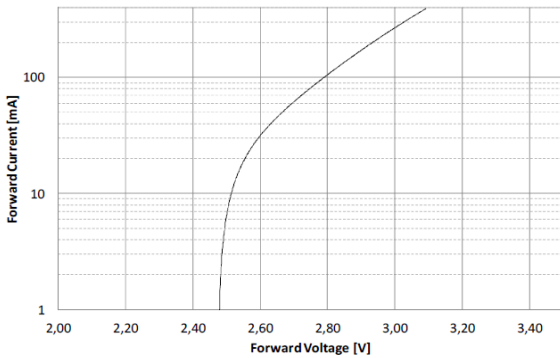


Data Sheet

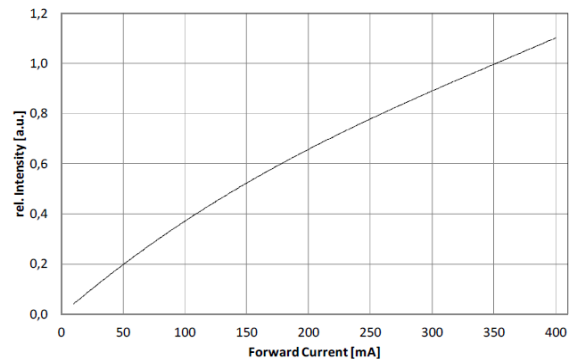
High Power LED

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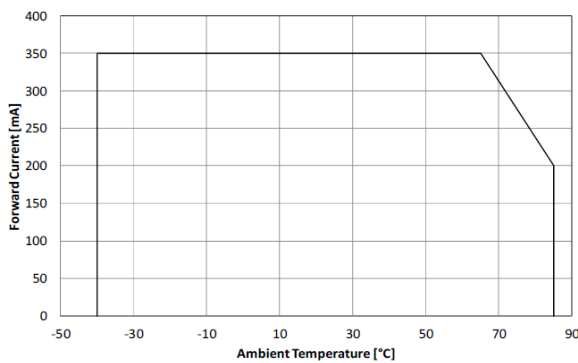
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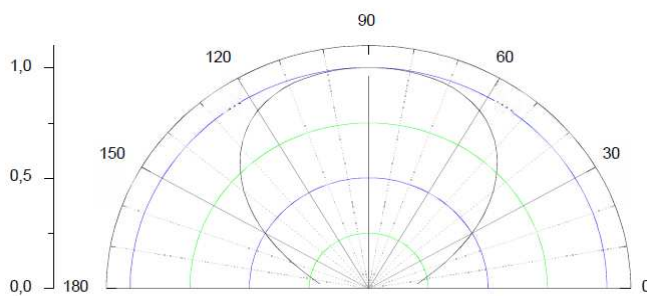
Forward Current vs. Forward Voltage



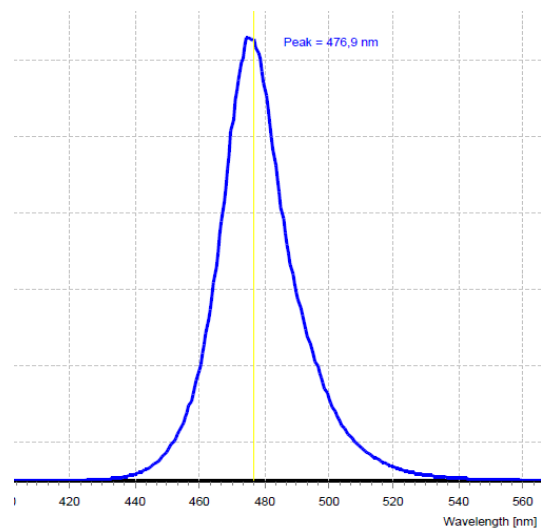
Intensity vs. Forward Current



Maximum Forward Current vs. Ambient Temperature



View Angle



Typical spectrum at 350 mA



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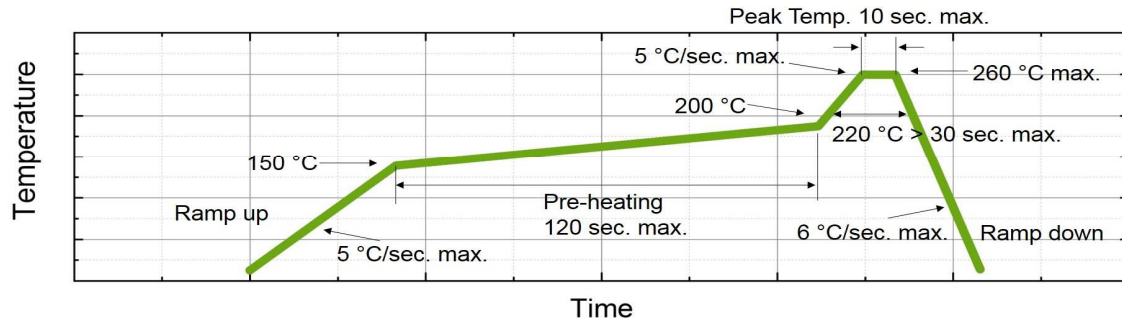


Data Sheet

High Power LED

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Recommended reflow soldering profile

Art. No. 133 111

