

# EPIGAP Optronik GmbH

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## Data Sheet

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### UV SMD-LED

### EOLS-400-393

Rev. 05, 2017

Radiation	Type	Case
UV	InGaN	Ceramic SMD 3020 (1208)

Unit: mm  
Tolerance: ±0,1

Marking at anode  
Markierung an der Anode

**Description:**

- Size 3.0 (W) x 2.0 (L) x 1.0 (H) mm
- Circuit substrate: Al<sub>2</sub>O<sub>3</sub> ceramics, silicone encapsulation
- Devices are RoHS and REACH conform
- Lead free solderable, soldering pads: gold plated
- Taped in 8 mm blister tape, cathode to transporting perforation
- All devices are sorted into radiant intensity classes
- Taping: face up (T)
- Electrostatic discharge classification (MIL-STD-883): class 1

### Maximum Ratings

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	30	mA
Peak forward current	t <sub>p</sub> ≤ 100 μs, τ=1/10	I <sub>FM</sub>	50	mA
Thermal resistance		R <sub>th_JC</sub>	60	K/W
Operating temperature range		T <sub>amb</sub>	-40 to +85	°C
Storage temperature range		T <sub>stg</sub>	-40 to +85	°C

### Optical and Electrical Characteristics

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA		3.2	3.6	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 5 V			100	μA
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 20 mA		16		mW
Radiant intensity	I <sub>e</sub>	I <sub>F</sub> = 20 mA	3.55	6		mW/sr
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	400		405	nm
FWHM	Δλ <sub>0,5</sub>	I <sub>F</sub> = 20 mA		14		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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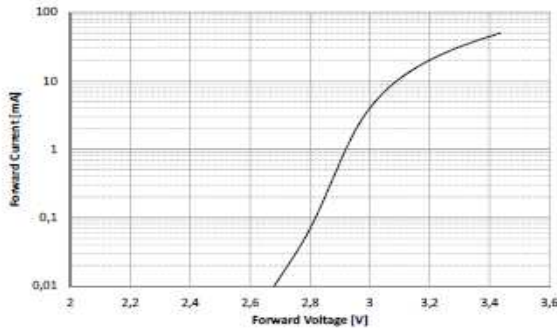


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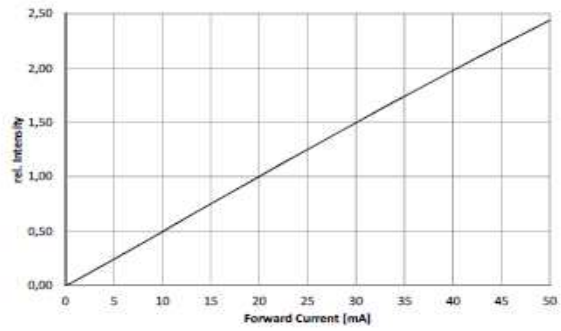
### UV SMD-LED

### EOLS-400-393

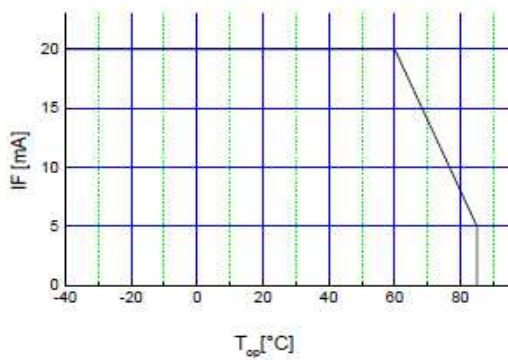
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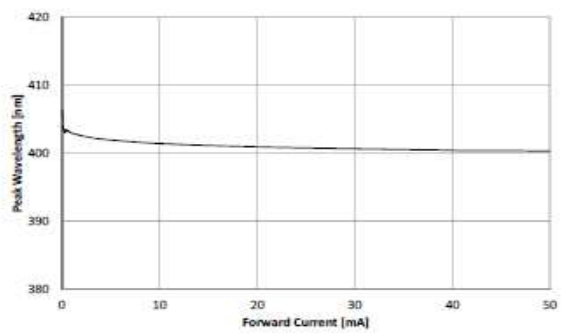
Forward current vs. forward voltage



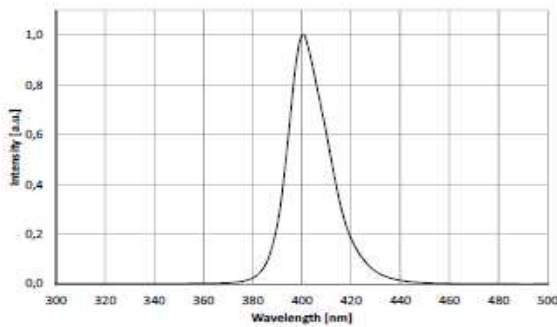
Relative intensity vs. forward current



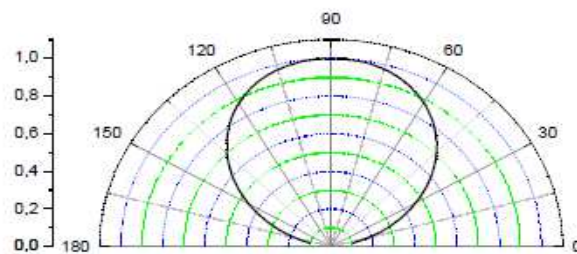
Max. forward current vs. ambient temperature



Peak wavelength vs. forward current



Spectrum



Radiation pattern



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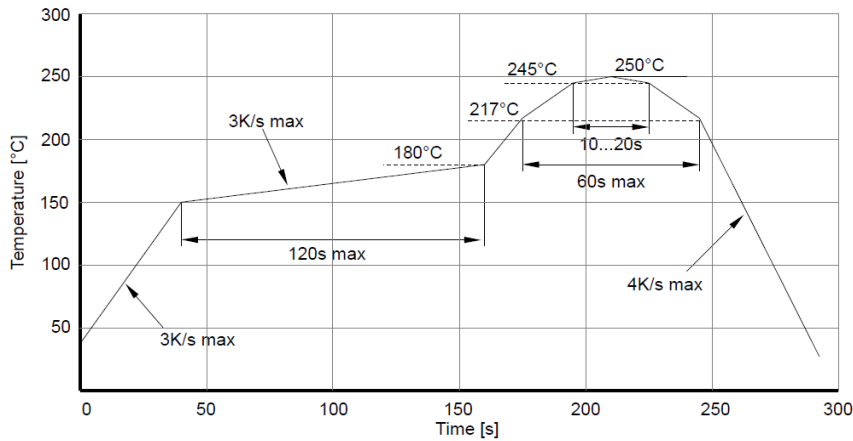
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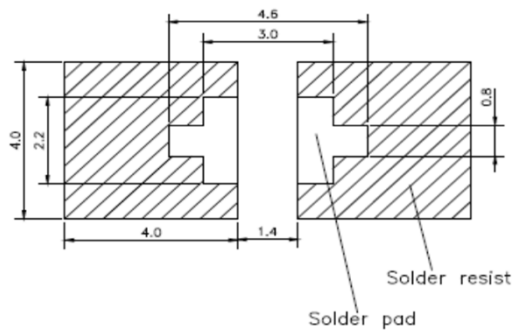
### UV SMD-LED

### EOLS-400-393

Rev. 05, 2017



IR reflow soldering  
profile for lead free  
soldering



Recommended soldering pad

Manual soldering: max power of iron 25 W / 300 °C for 3 s.

Art. No. 133 021



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