

EPIGAP Optronik GmbH

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Data Sheet

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High Power LED

EOLS-490-227

Rev. 03, 2017

Radiation	Type	Case
Blue-green	InGaN	SMD 6046 (2418), ceramics

<p style="text-align: center;">All dimensions in mm</p>	<p style="text-align: center;">Description:</p> <ul style="list-style-type: none"> - size: 6.0(L) x 4.6(W) x 4.3(H) mm - high pulse current up to 1000 mA - with lens, view angle 20° - soldering pads: gold plated; only for reflow soldering - marking at cathode
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Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	700	mA
Peak forward current	t _p ≤ 100 μs, τ=1:10	I _{FM}	1000	mA
Reverse voltage		V _R	5	V
Thermal resistance		R _{th_JA}	5	K/W
Operating temperature range		T _{amb}	-40 to +85	°C
Storage temperature range		T _{stg}	-40 to +85	°C

Electrostatic discharge classification (MIL-STD-883) - class 1

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		3.25	3.6	V
Radiant power*	Φ _e	I _F = 350 mA		190		mW
Radiant intensity*	I _e	I _F = 350 mA		580		mW/sr
Luminous flux*	Φ _v	I _F = 350 mA		25		lm
Luminous intensity*	I _v	I _F = 350 mA		115		cd
Peak wavelength	λ _p	I _F = 350 mA	480	490	500	nm
FWHM	Δλ _{0,5}	I _F = 350 mA		35		nm
Reverse current	I _R	I _R = 5 V			100	μA

*measured on star board



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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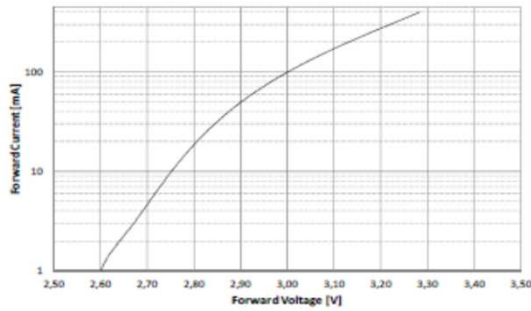
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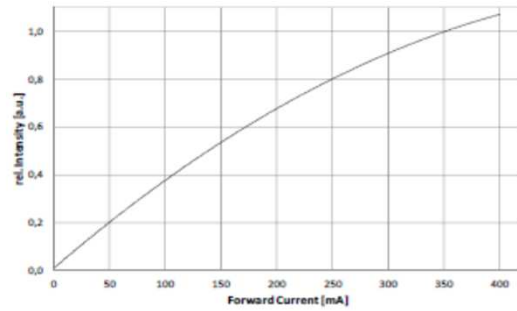
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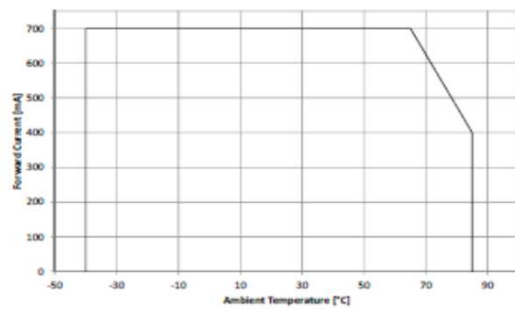
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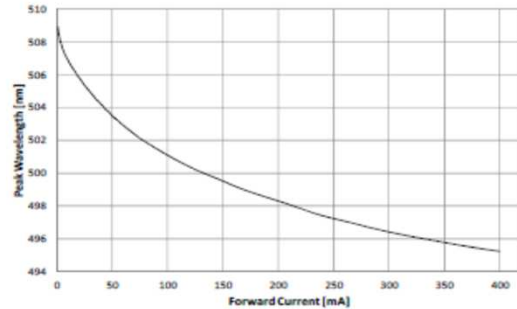
Forward Current vs. Forward Voltage
Flussstrom über Flussspannung



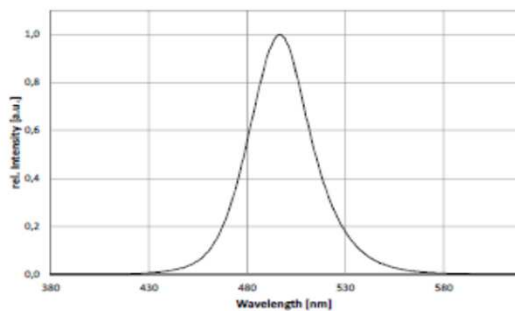
Intensity vs. Forward Current
Strahlstärke über Flussstrom



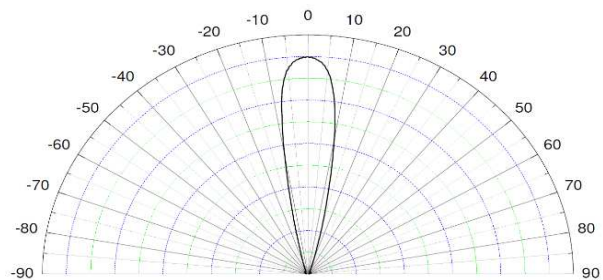
Max. Forward Current vs. Ambient Temperature
Max. Flussstrom über Umgebungstemperatur



Forward Current vs. Shift Peak Wavelength
Flussstrom gegen Verschiebung der Wellenlänge



Spectrum @ 350mA
Spektrum



View Angle
Abstrahlung



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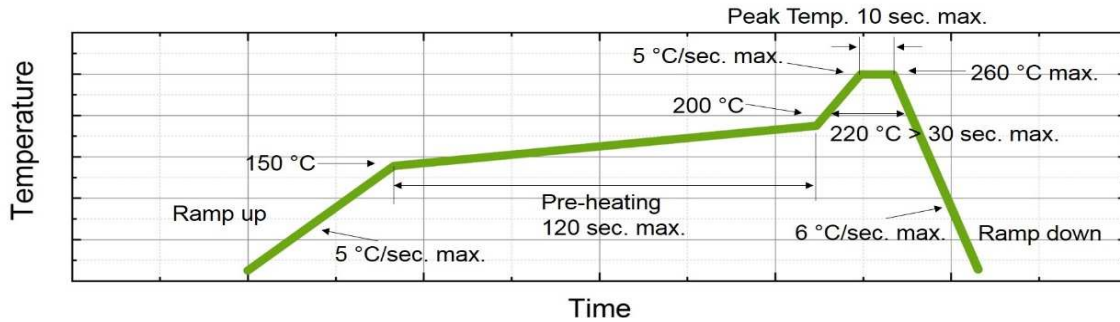


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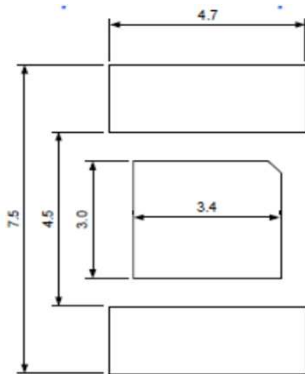
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Recommended reflow soldering profile



Recommended soldering pad

Thermal pad needs to be connected to a heat sink with less than 10 K/W thermal resistance.

Art. No. 133 154



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