

EPIGAP Optronik GmbH

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Data Sheet

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High Power LED

EOLS-635-496-1

Rev. 10, 2020

Radiation	Type	Case
Red	AllnGaP/Si	SMD 3838 (1515)

	<p>The picture shown is for illustration purpose only. Actual product may vary due to product enhancement.</p> <p style="text-align: center;">Description:</p> <ul style="list-style-type: none"> - 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
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Maximum Ratings

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	350	mA
Peak forward current	$t_p \leq 80 \text{ ms}, T=1 \text{ s}$	I_{FM}	1000	mA
Operating temperature range		T_{amb}	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		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	$I_F = 1000 \text{ mA}$		2.8	4.0	V
Radiant power*	Φ_e	$I_F = 1000 \text{ mA}$	350			mW
Peak wavelength	λ_p	$I_F = 350 \text{ mA}$		635		nm
FWHM	$\Delta\lambda_{0,5}$	$I_F = 350 \text{ mA}$		20		nm

*LEDs should never be operated with reverse bias!



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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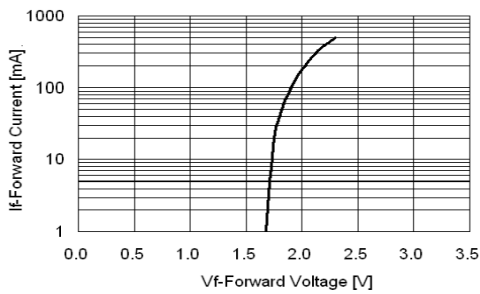
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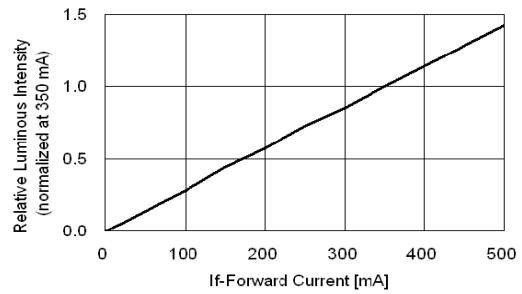
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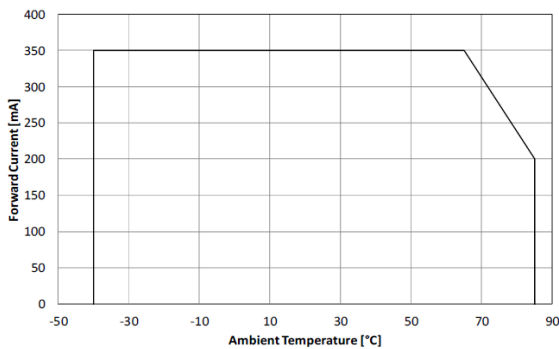
EOLS-635-496-1



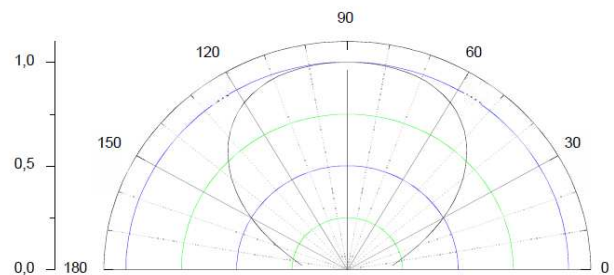
Forward Current vs. Forward Voltage



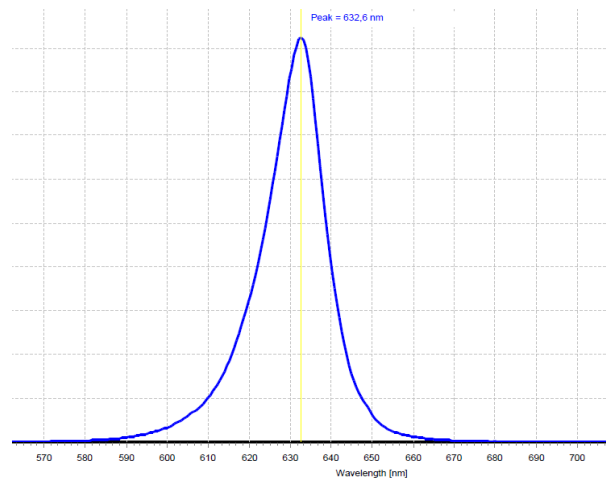
Intensity vs. Forward Current



Maximum Forward Current vs. Ambient Temperature



View Angle



Typical spectrum at 350 mA



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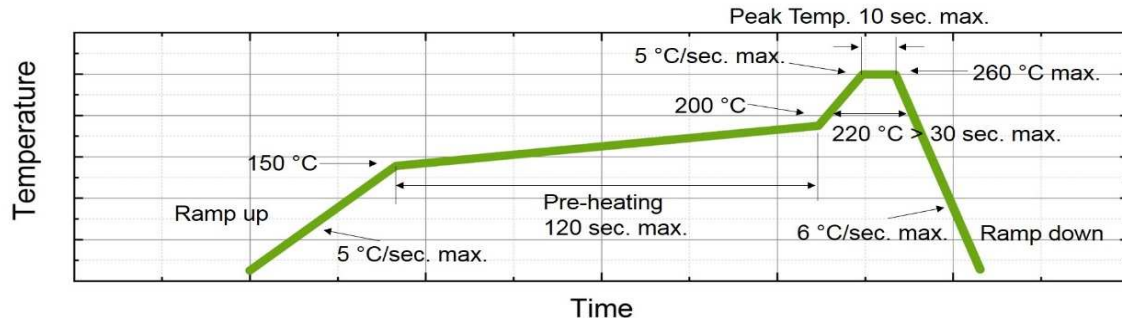


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Recommended reflow soldering profile

Art. No. 133 114



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