

EPIGAP Optronik GmbH

Koepenicker Str. 325
 D-12555 Berlin
 Fon: +49 (0)30 657637 60
 Fax: +49 (0)30 657637 70
 sales@epigap-optronic.de



Data sheet

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Blue LED

EOLD-470-324

Rev. 01, 2017

Radiation	Type	Case
Blue	InGaN	3 mm water clear plastic lens

Description:	
<p>All dimensions in mm</p>	<ul style="list-style-type: none"> - Super bright LED - Emitted color: blue - Without stand-off <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation		P_D	95	mW
Continuous forward current		I_F	25	mA
Peak forward current	1/10 duty cycle @ 1 kHz	I_{FP}	100	mA
Reverse voltage		V_R	5	V
Reverse current	$V_R = 5\text{ V}$	I_R	10	μA
Operating temperature range		T_{amb}	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +100	$^{\circ}\text{C}$
Lead soldering temperature	$t = 3\text{ s}$, 1.6 mm from case	T_{slg}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20\text{ mA}$		3.2	3.8	V
Peak wavelength	λ_p	$I_F = 20\text{ mA}$		463		nm
Dominant wavelength	λ_D	$I_F = 20\text{ mA}$		470		nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20\text{ mA}$		24		nm
Luminous intensity	I_V	$I_F = 20\text{ mA}$	3500	5000		mcd
Viewing angle	φ	$I_F = 20\text{ mA}$		10		deg.

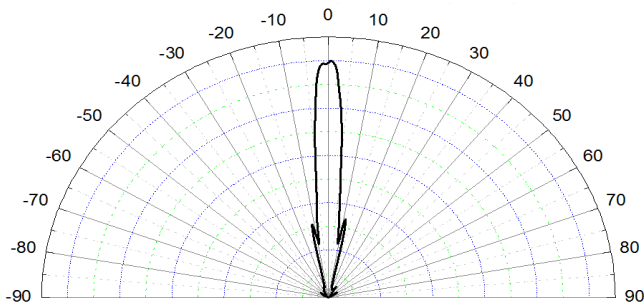
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

Data sheet

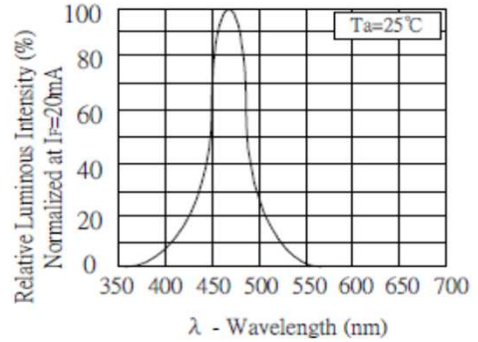
Blue LED

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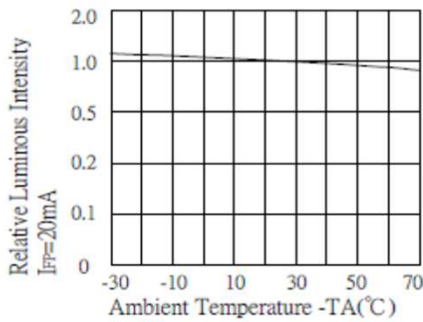
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



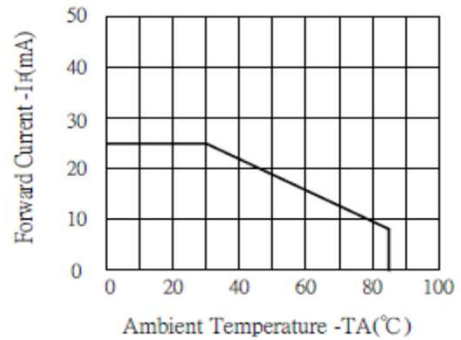
RADIATION DIAGRAM



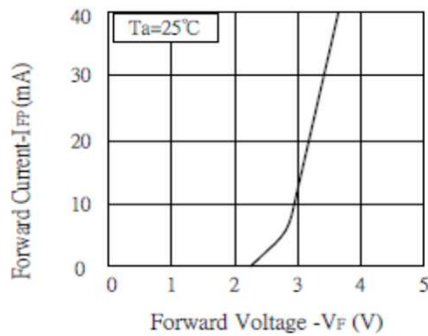
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



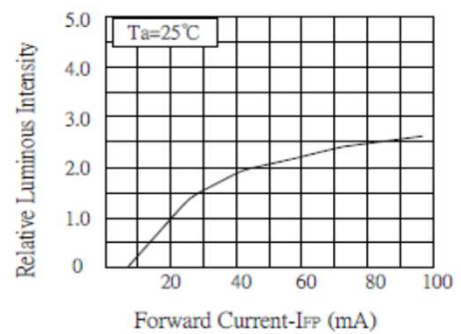
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

Art. No. 131 022



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