

# EPIGAP Optronik GmbH

Koepenicker Str. 325b  
 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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### Yellow LED

EOLD-588-333

Rev. 02, 2017

Radiation	Type	Case
Yellow	AlInGaP	3 mm water clear plastic lens

	<p><b>Description:</b></p> <ul style="list-style-type: none"> <li>- Super bright LED</li> <li>- Emitted color: yellow</li> <li>- Without stand-off</li> </ul> <div style="text-align: right;"> </div>
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### Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation		P <sub>D</sub>	125	mW
Continuous forward current		I <sub>F</sub>	50	mA
Peak forward current	1/10 duty cycle @ 1 kHz	I <sub>FP</sub>	100	mA
Reverse voltage		V <sub>R</sub>	5	V
Reverse current	V <sub>R</sub> = 5 V	I <sub>R</sub>	10	μA
Operating temperature range		T <sub>amb</sub>	-40 to +85	°C
Storage temperature range		T <sub>stg</sub>	-40 to +85	°C
Lead soldering temperature	t = 3 s, 1.6 mm from case	T <sub>slg</sub>	260	°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		2.2	2.7	V
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA		590		nm
Dominant wavelength	λ <sub>D</sub>	I <sub>F</sub> = 20 mA		588		nm
FWHM	Δλ <sub>0.5</sub>	I <sub>F</sub> = 20 mA		20		nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		30 62!		deg.
Luminous intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	3300	5000		mcd

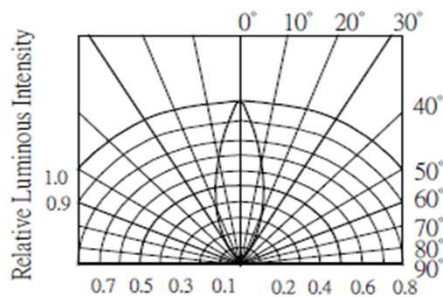
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

**Data sheet**

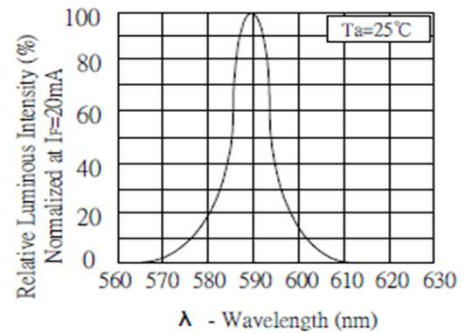
**Yellow LED**

**EOLD-588-333**

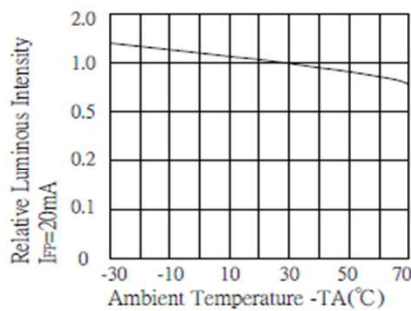
**TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES**



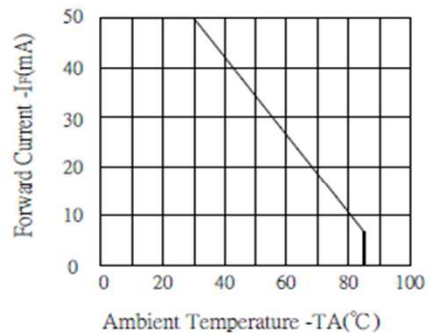
**RADIATION DIAGRAM**



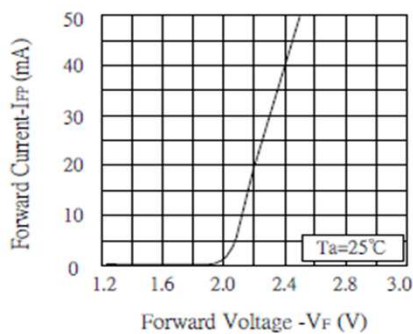
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



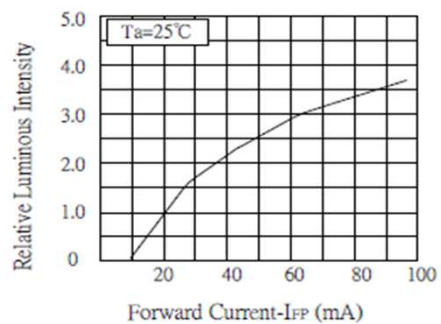
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**