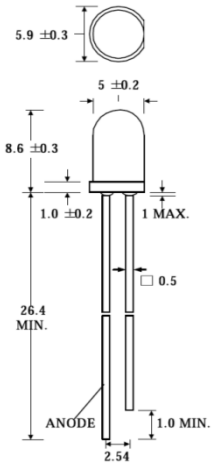
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Product Data Sheet

UV LED — EOLD-385-535

Rev. 02, 2015

Radiation	Type	Case
ultraviolet	InGaN/SiC	5 mm plastic lens



Notes:

1. All dimensions are in millimeter

2. Lead spacing is measured where the lead emerge from the package

Description:

Super bright LED, round type, 5 mm diameter, lens color: water clear with flange, housing without standoff leads, complaint with RoHS

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I_F	30	mA
Peak forward current	1/10 duty cycle @ 1 kHz	I_{FM}	100	mA
Power dissipation		P_D	120	mW
Operating temp. range		T_{amb}	-40 to +85	°C
Storage temp. range		T_{stg}	-40 to +100	°C
Lead soldering temp.	t< 5s, 3mm from case	T_{slg}	260	°C

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V_F	I_F= 20 mA		3.2	3.8	V
Reverse voltage	V_R	I_R= 10 µA	5			V
Luminous intensity	Iv	I_F= 20 mA	15	23		mcd
Peak wavelength	λ_p	I_F= 20 mA	380	385	390	nm
Dominant wavelength	λ_D	I_F= 20 mA	390	400	410	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	I_F= 20 mA		30		nm
Viewing angle	φ	I_F= 20 mA		30		deg.

Tolerance of viewing angle: -10/+5 deg.

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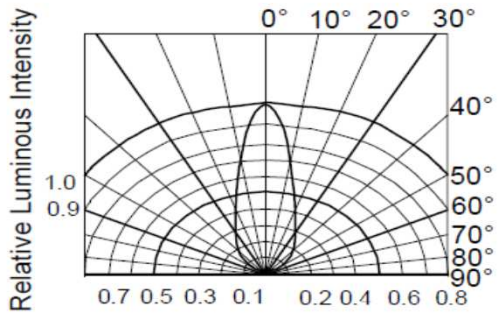
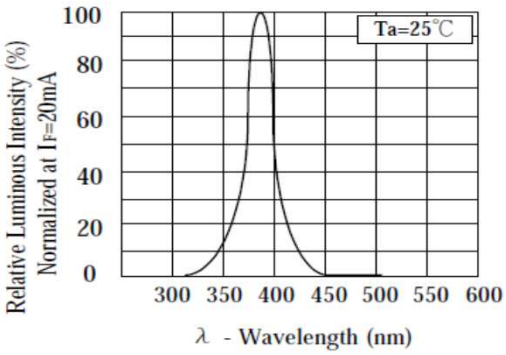
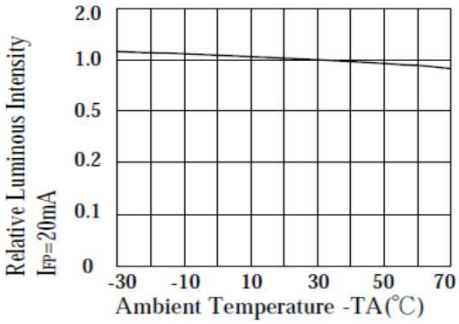
Typical optical-electrical characteristic curves



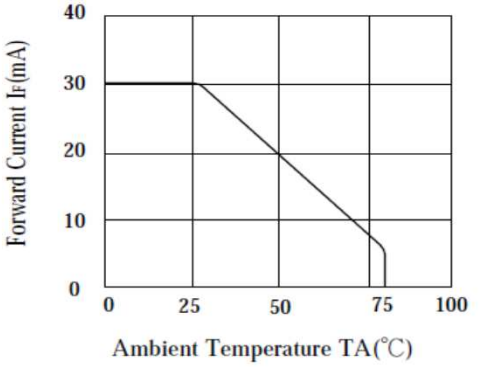
RADIATION DIAGRAM



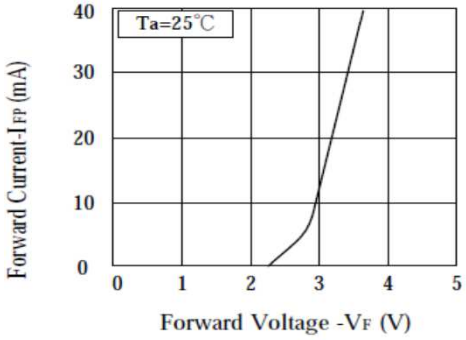
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



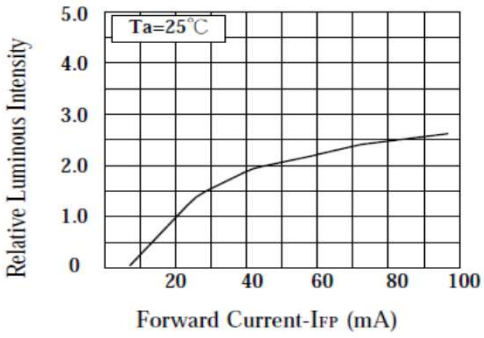
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

RoHS COMPLIANT Pb Pb-Free