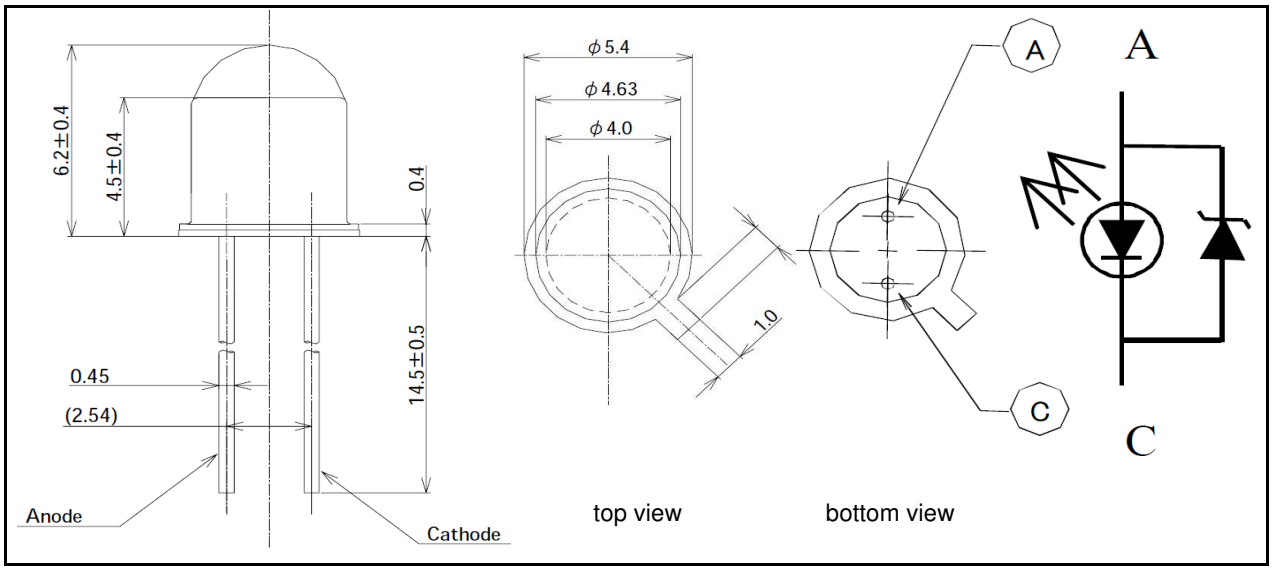
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Data sheet

UV LED EOLD-370-012

Rev. 04, 2017

Radiation	Type	Case
Ultraviolet	GaN	metal TO-46 package with lens



Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	25	mA
Pulse forward current	t < 0.1 ms, t/T < 1/10	I_{FP}	100	mA
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-30 to +80	°C
Storage temperature range		T_{stg}	-30 to +100	°C
Lead soldering temperature	< 10 s	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	3.6	4.2	V
Opt. output power	Φ_e	I_F= 20 mA	1.2		1.8	mW
Peak wavelength	λ_p	I_F= 20 mA	370		375	nm
Viewing angle	φ	I_F= 20 mA		10		deg.
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		12		nm

RoHS COMPLIANT Pb Pb-Free

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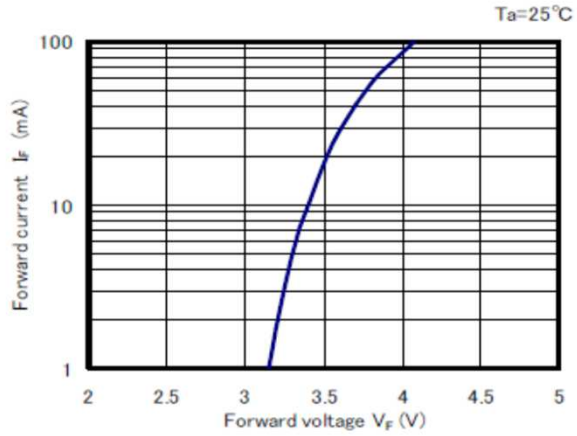
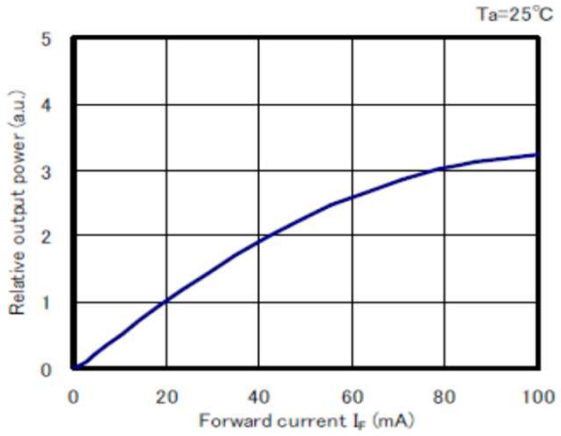
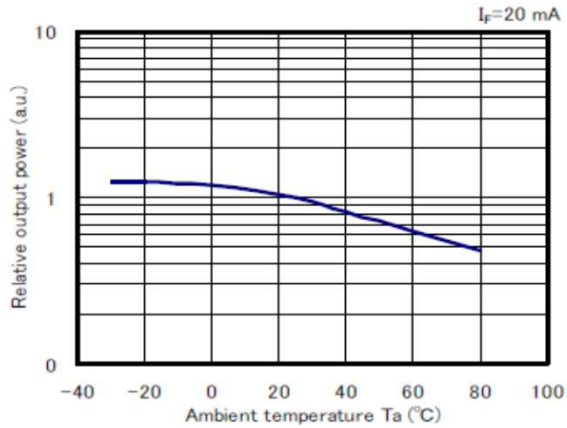
■Forward voltage vs. Forward current



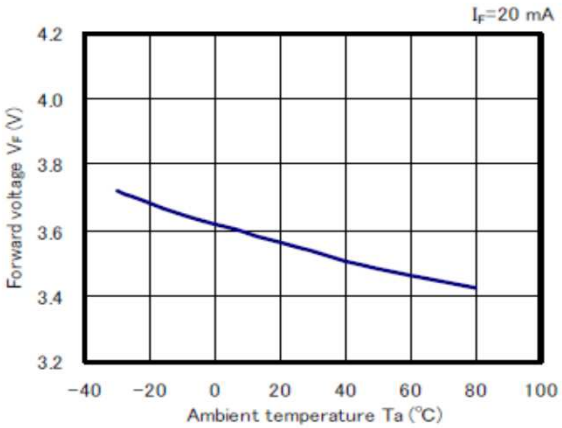
■Forward current vs. Relative output power



■Ambient temperature vs. Relative output power



■Ambient temperature vs. Forward voltage



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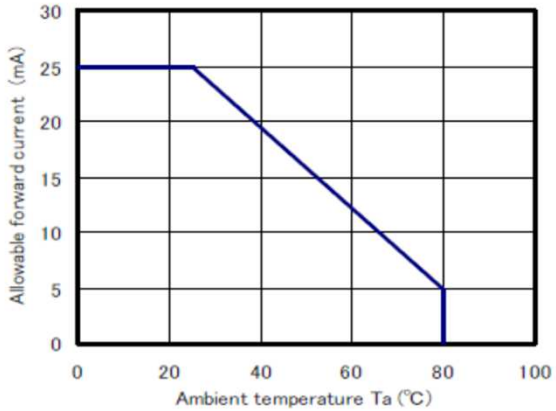
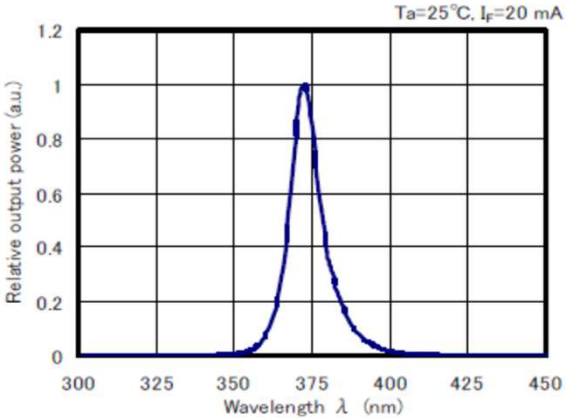
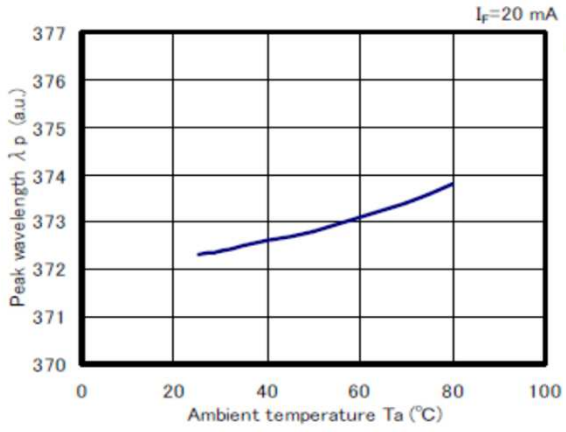
■Ambient temperature vs. Allowable forward current



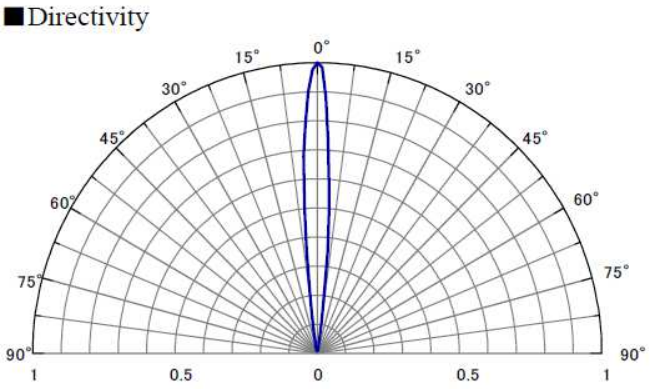
■Spectrum



■Ambient temperature vs. Peak wavelength



■Directivity



Art. No. 134 025

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