EPIGAP Optronic GmbH
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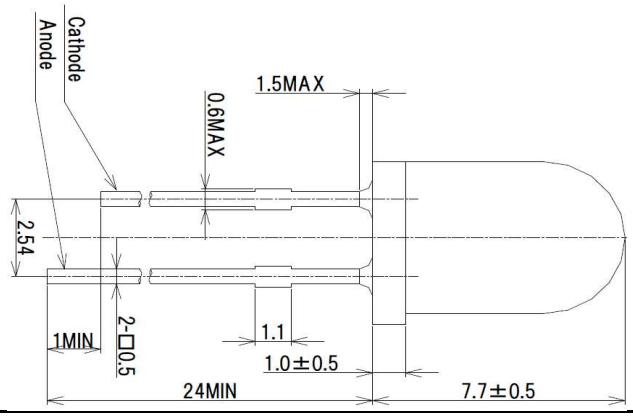
Data sheet

UV LED — EOLD-400-545 HP

Rev. 03, 2019

Radiation	Type	Case
Ultraviolet	Resin mold packaged	5 mm plastic lens



Description:

Dimensions in mm

* High power
* High-speed
* High reliablitiy

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	25	mA
Peak forward current	t < 0.1 ms, t/T < 1/10	I_{FM}	100	mA
Reverse current	V_R = 5 V	I_R	85	mA
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-30 to +80	°C
Storage temperature range		T_{stg}	-30 to +85	°C
Lead soldering temperature	t< 5 s, 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	3.2	4	V
Radiant power	Φ_e	I_F= 20 mA	21	25	29	mW
Peak wavelength	λ_p	I_F= 20 mA	400	405	410	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA	10		20	nm
Viewing angle	φ	I_F= 20 mA		40		deg.

RoHS COMPLIANT — Pb Pb-Free

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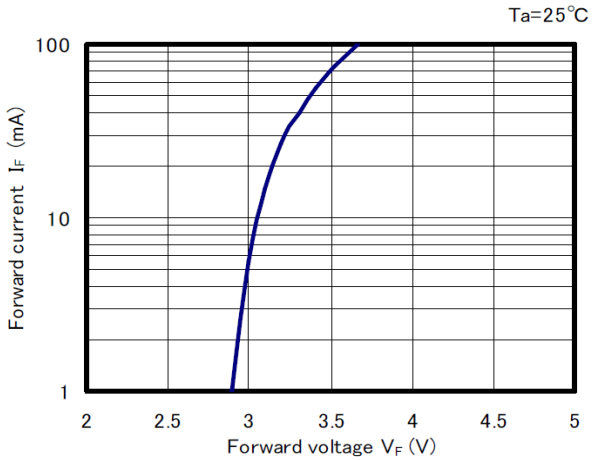
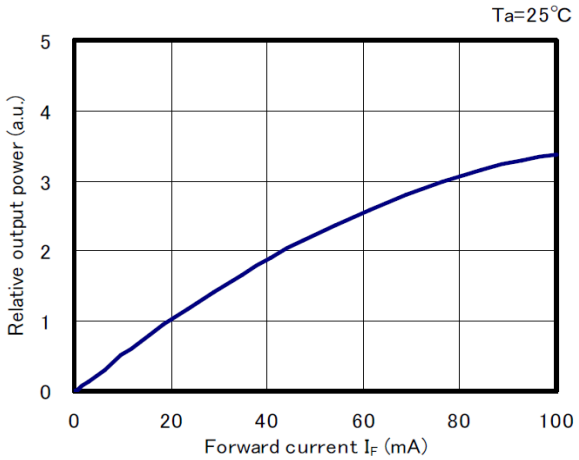
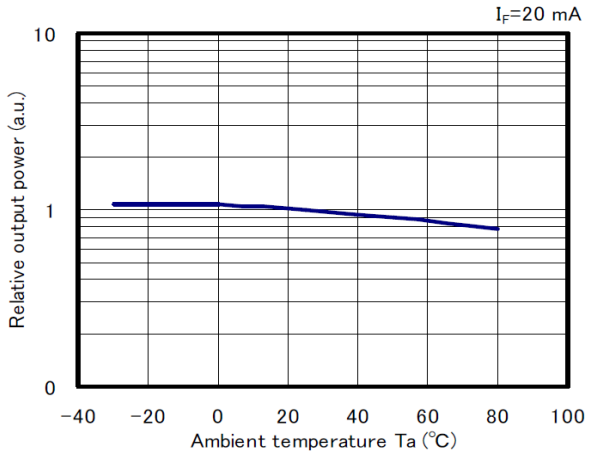
■Forward voltage vs. Forward current



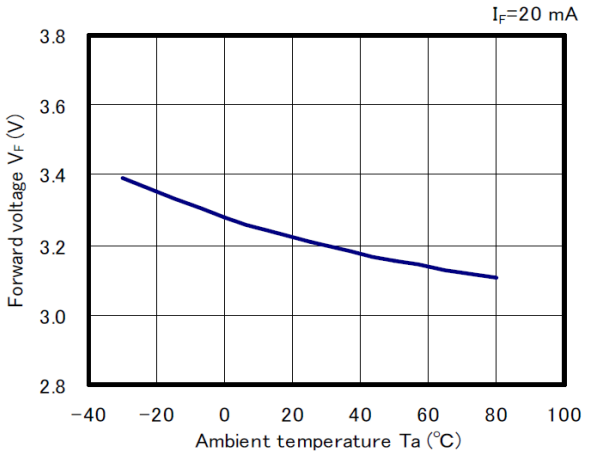
■Forward current vs. Relative output power



■Ambient temperature vs. Relative output power



■Ambient temperature vs. Forward voltage



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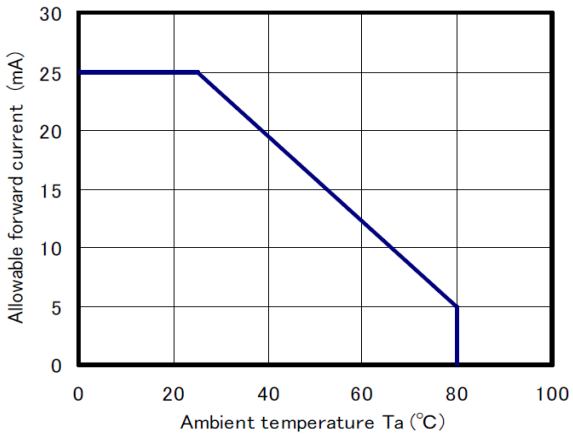
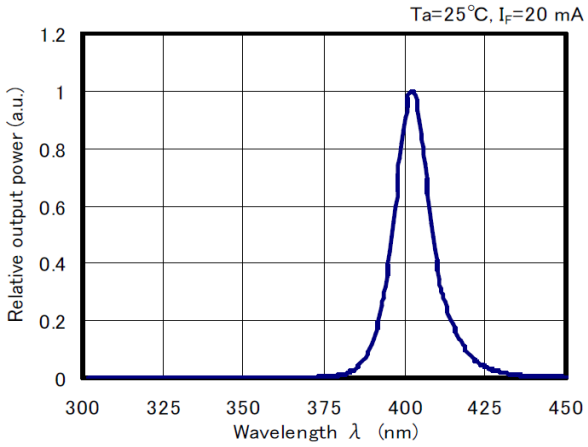
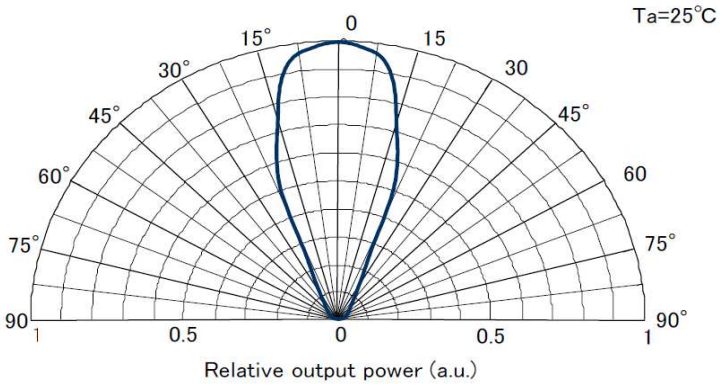
■Ambient temperature vs. Allowable forward current



■Spectrum



■Directivity



Art. No. 132 005

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