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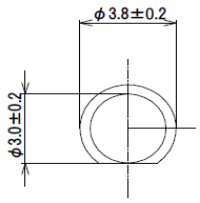
Data sheet

UV LED — EOLD-400-334

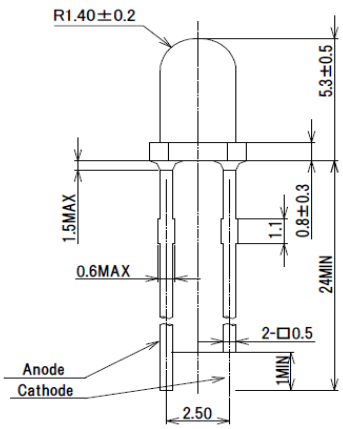
Rev. 02, 2019

Radiation	Type	Case
Ultraviolet	AlGaN	3 mm, silicon resin encapsulation

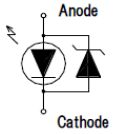
Top View



Side View



Internal circuit



(Unit : mm)

Description:

High power, high-speed, high reliablitiy LED.
A Zener diode is built in the protective circuit against static electricity, lead frame Fe + Ag coating.

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
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	< 10 s	T_{slg}	260	°C

RoHS COMPLIANT Pb Pb-Free

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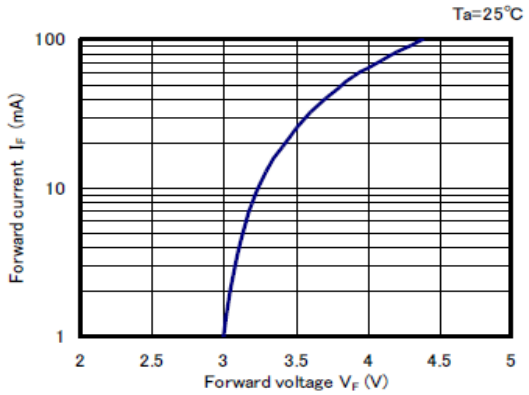
Optical and Electrical Characteristics

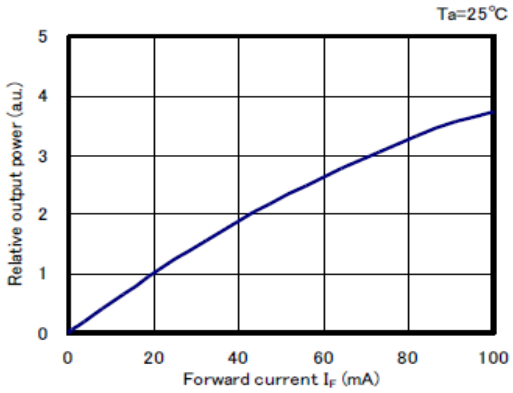
T_{amb}= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA	3.2	3.6	4.2	V
Radiant power	Φ_e	I_F= 20 mA	21	25	30	mW
Peak wavelength	λ_p	I_F= 20 mA	395	400	405	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA	10	15	20	nm
Viewing angle	φ	I_F= 20 mA		30		deg.

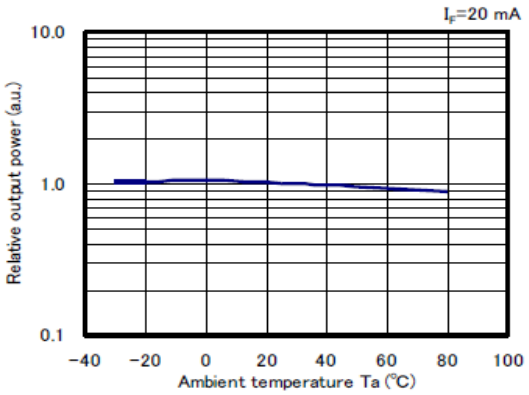
■Forward voltage vs. Forward current



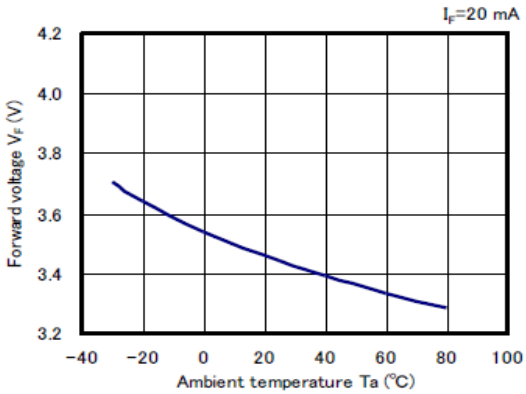
■Forward current vs. Relative output power



■Ambient temperature vs. Relative output power



■Ambient temperature vs. Forward voltage



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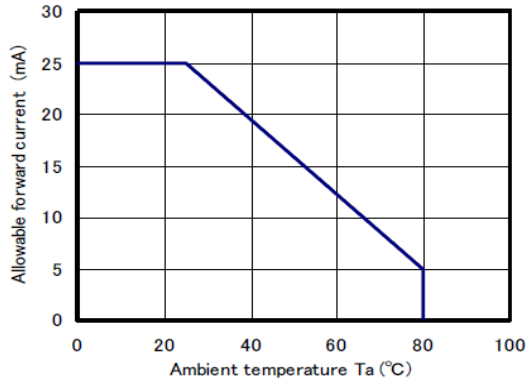
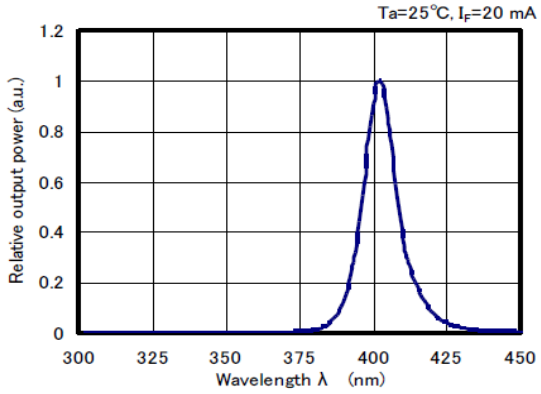
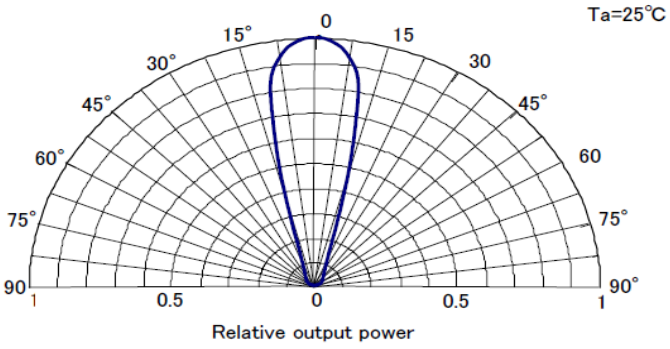
■Ambient temperature vs.
Allowable forward current



■Spectrum



■Directivity



Art. Nr. 131 039

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