EPIGAP Optronic GmbH
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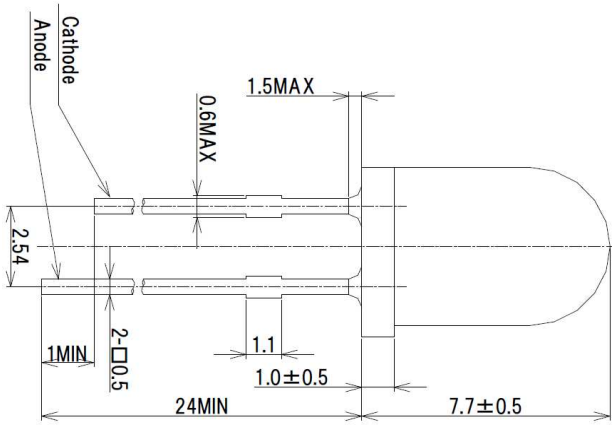
Data sheet

UV LED — EOLD-355-525

Rev. 03, 2017

Radiation	Type	Case
Ultraviolet	AlGaN	5 mm plastic lens



Description:

High power, high-speed, narrow beam angle, high reliablitiy, a Zener diode is built in the protective circuit against static electricity, lead frame FE + AG coating, material - silicone resin

Dimension in mm

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	< 5 s, 3 mm 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	3.6	4.2	V
Radiant power	Φ_e	I_F= 20 mA	0.8		1.2	mW
Peak wavelength	λ_p	I_F= 20 mA	353		360	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA	10		20	nm
Viewing angle	φ	I_F= 20 mA		15		deg.

RoHS COMPLIANT — Pb Pb-Free

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.

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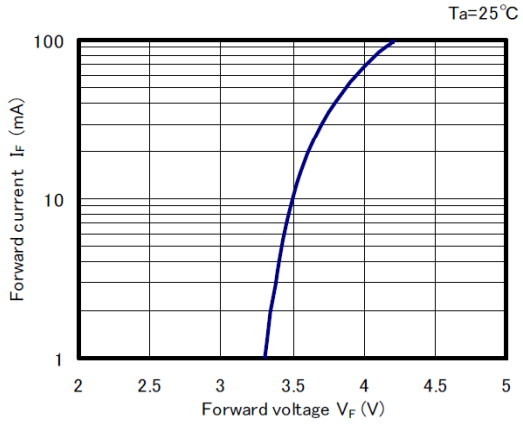
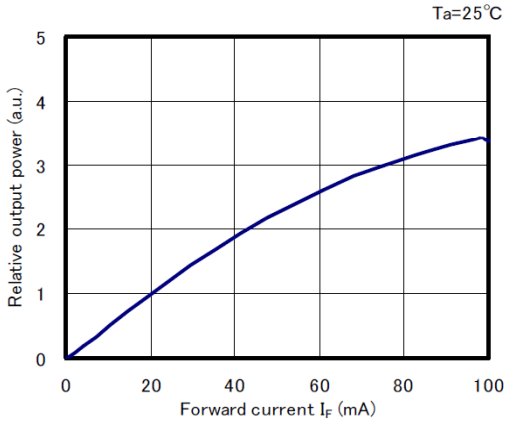
Optical and electrical characteristics

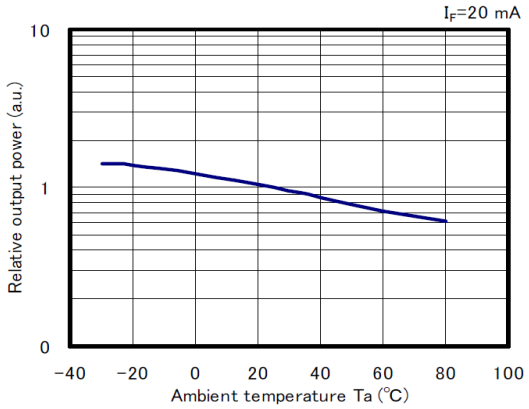
■Forward voltage vs. Forward current



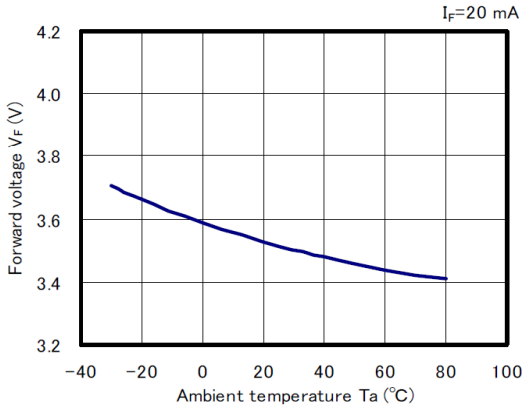
■Forward current vs. Relative output power



■Ambient temperature vs. Relative output power



■Ambient temperature vs. Forward voltage



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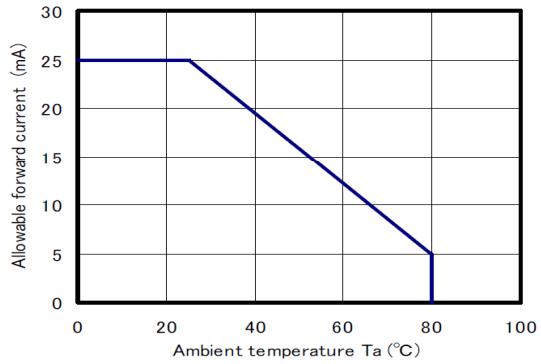
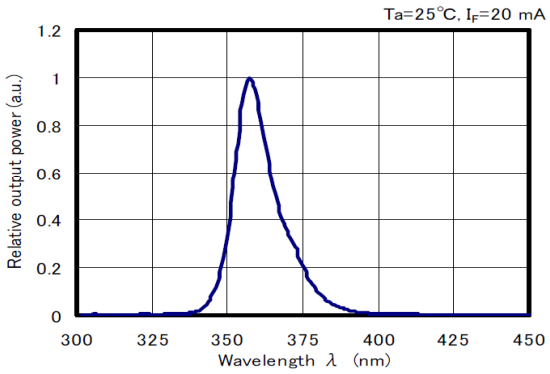
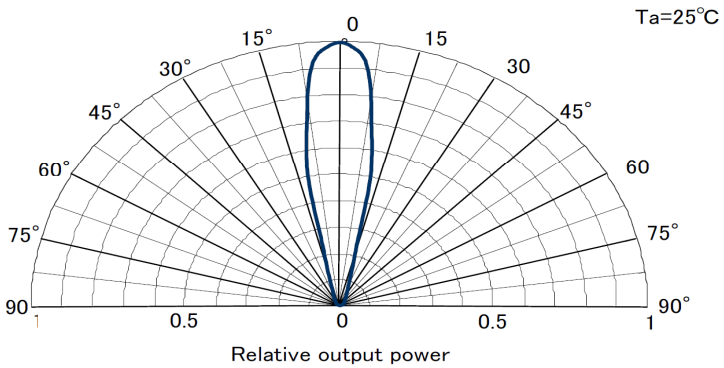
■Ambient temperature vs.
Allowable forward current



■Spectrum



■Directivity



Art. No. 132 001

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