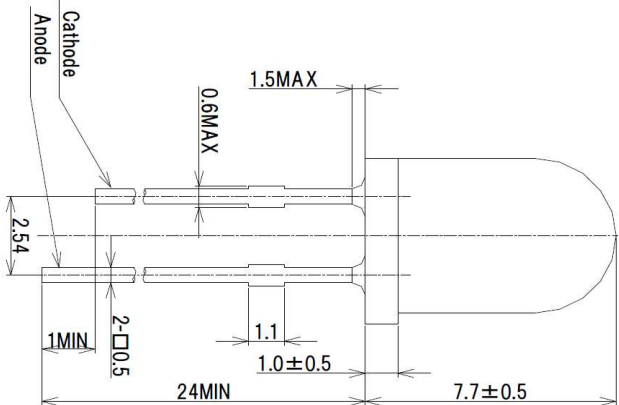


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Radiation	Type	Case
Ultraviolet	GaN	5 mm plastic lens

Description:	
	
High power, high-speed, narrow beam angle, high reliability	
Dimension in mm	

Maximum Ratings $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	25	mA
Peak forward current	$t < 0.1 \text{ ms}$, $t/T < 1/10$	I_{FM}	100	mA
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-30 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +85	$^{\circ}\text{C}$
Lead soldering temperature	< 5 s, 3 mm from case	T_{slg}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

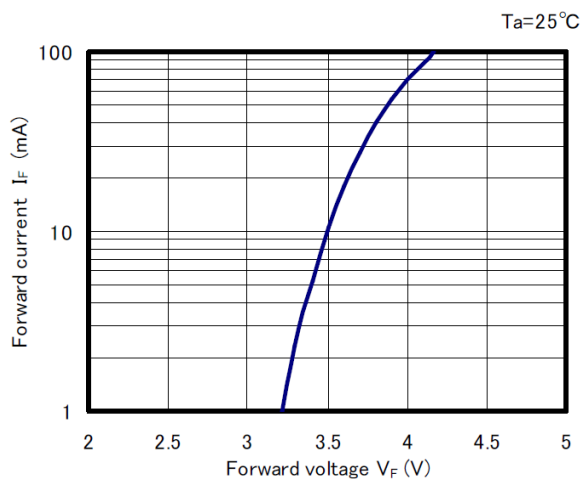
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$	3.2	3.6	4.2	V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$	2.4		6	mW
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	363		370	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$	10		20	nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		15		deg.



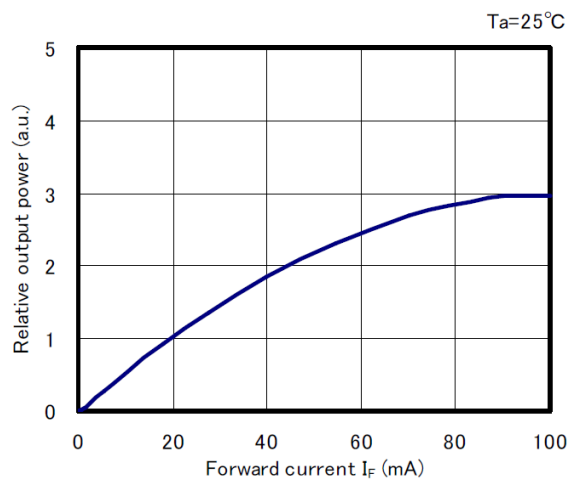
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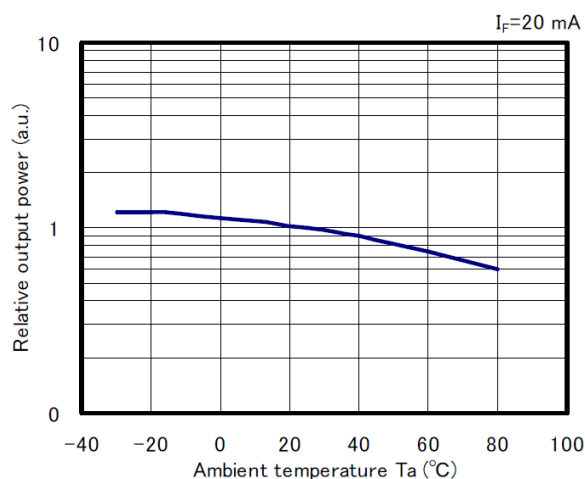
■ Forward voltage vs. Forward current



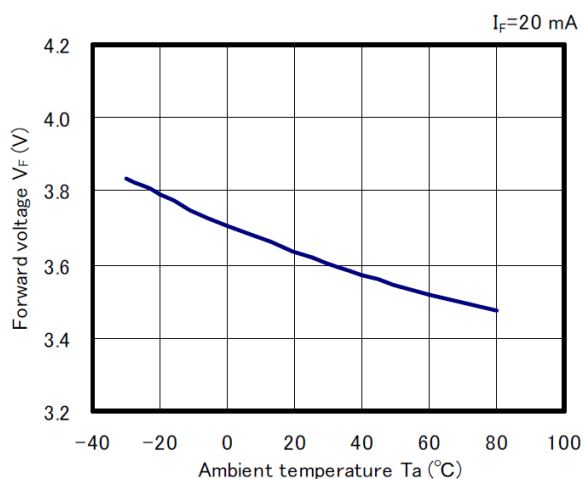
■ Forward current vs. Relative output power



■ Ambient temperature vs. Relative output power

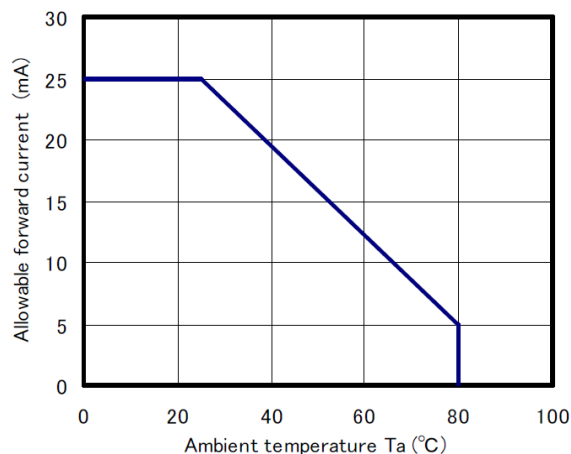
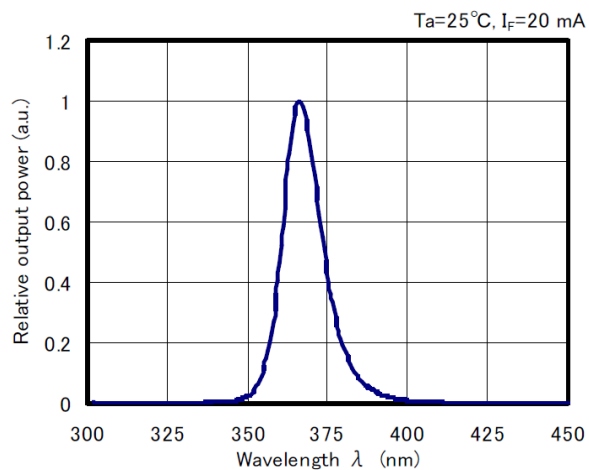
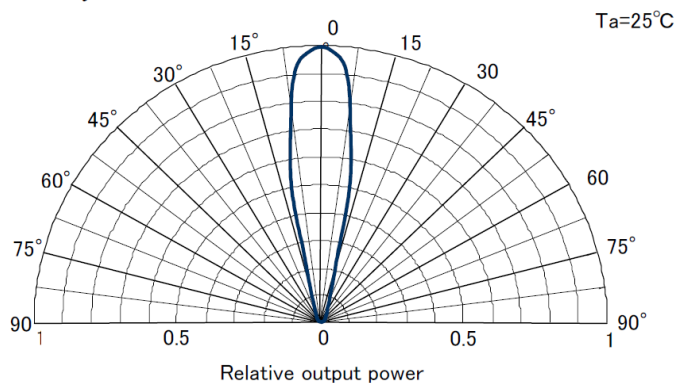


■ Ambient temperature vs. Forward voltage



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**■ Ambient temperature vs.
Allowable forward current****■ Spectrum****■ Directivity**

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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.