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Data sheet

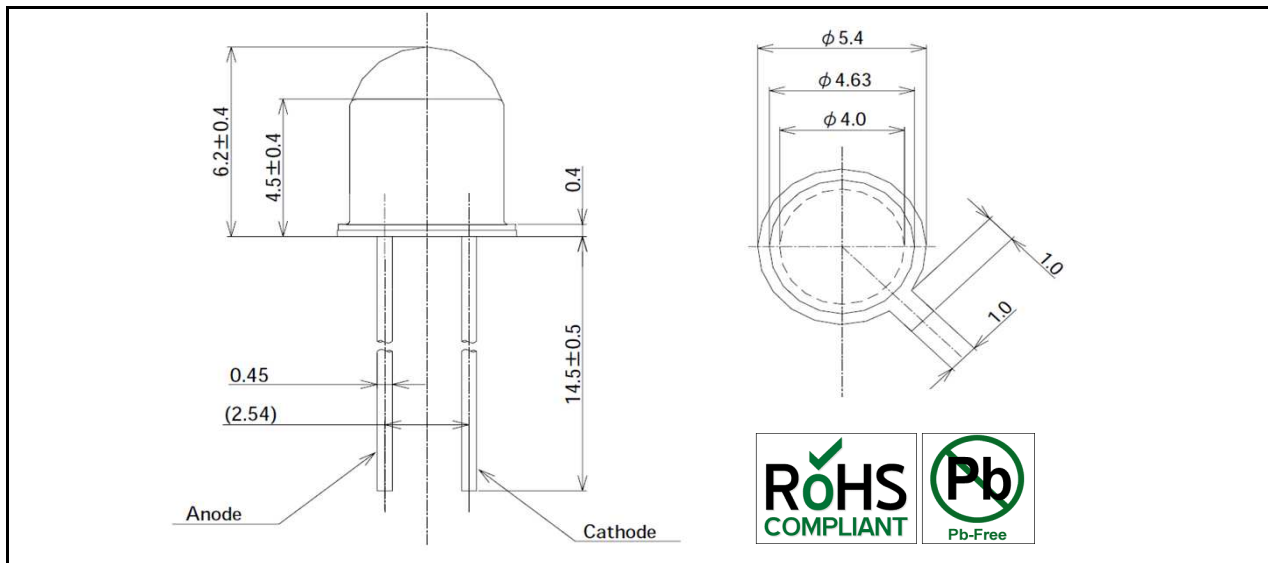
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UV LED

EOLD-370-012

Rev. 02, 2014

Radiation	Type	Case
Ultraviolet		metal package with lens



Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	25	mA
Pulse forward current	$t < 0.1 \text{ ms}, t/T < 1/10$	I_{FP}	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 +100	$^{\circ}\text{C}$
Lead soldering temperature	$< 10 \text{ s}$	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
Opt. output power	P_o	$I_F = 20 \text{ mA}$	1.2		1.8	mW
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	370		375	nm
Viewing angle	ϕ	$I_F = 20 \text{ mA}$		10		deg.
Spectral bandwidth at 50%	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		12		nm

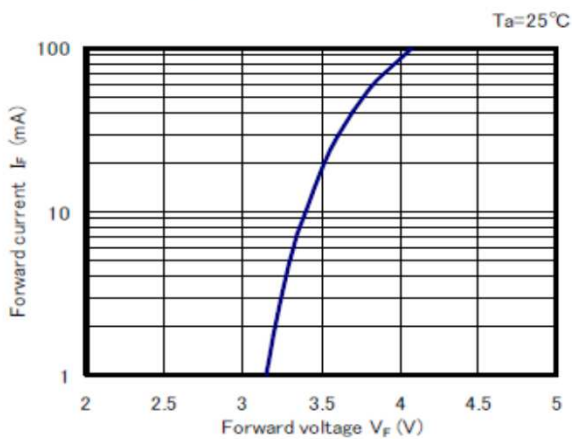
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

Data sheet

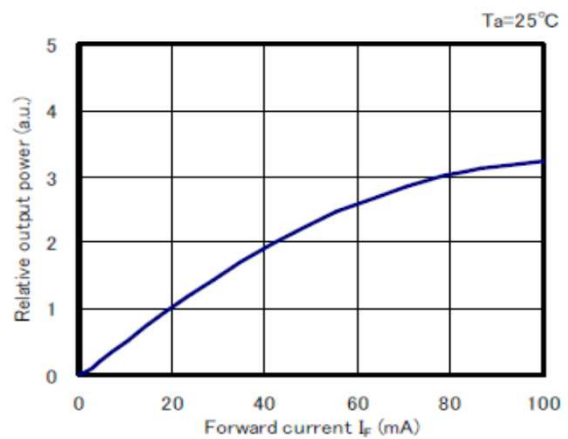
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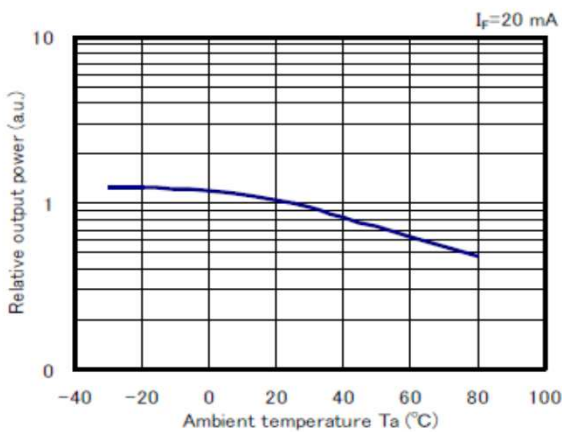
■ Forward voltage vs. Forward current



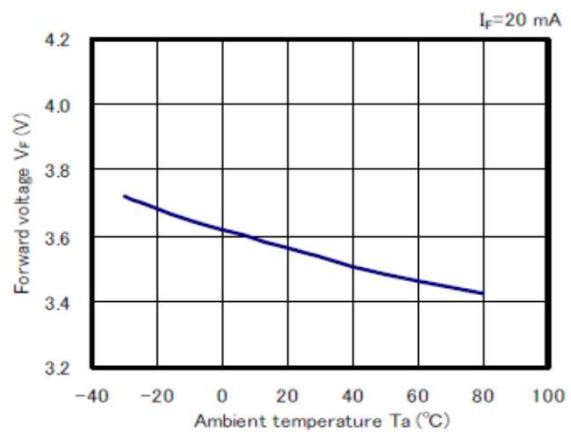
■ Forward current vs. Relative output power



■ Ambient temperature vs. Relative output power



■ Ambient temperature vs. Forward voltage



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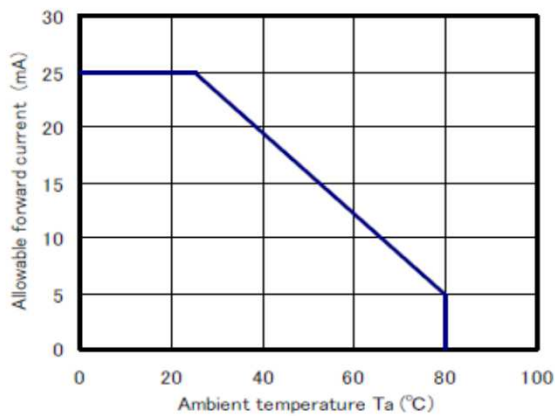
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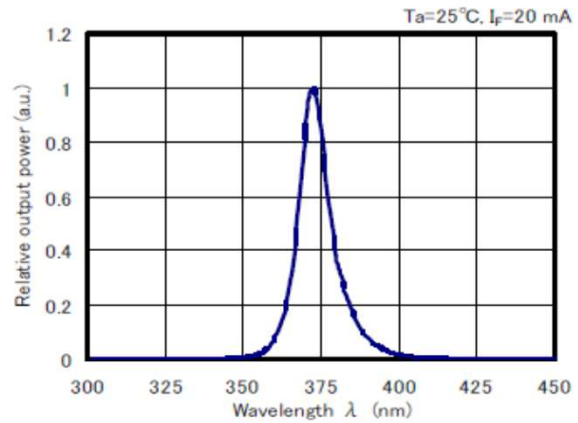
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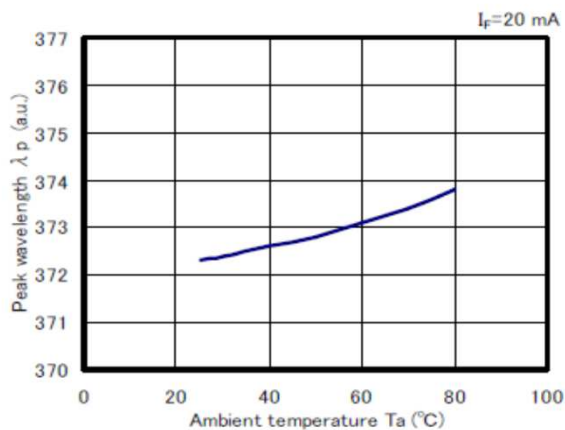
Ambient temperature vs. Allowable forward current



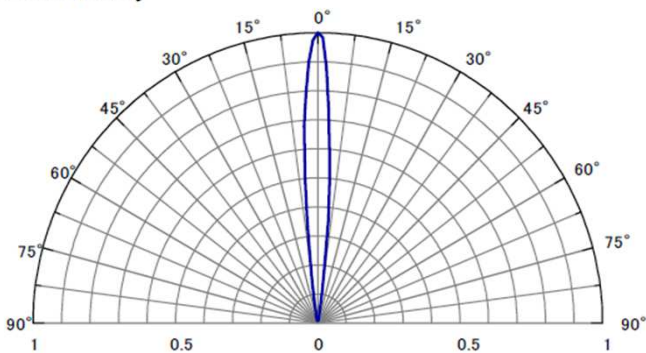
Spectrum



Ambient temperature vs. Peak wavelength



Directivity



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