



Product Data Sheet

LED Lamp ultra violet

EOLD-400-535

Rev. 01 aus 2011

Radiation	Type	Case
ultra violet	InGaN/SiC	5mm plastic lens

Description:	
<p>Notes:</p> <ol style="list-style-type: none"> All dimensions are in millimeter Lead spacing is measured where the lead emerge from the package 	<p>Super bright LED lamp, round type, 5mm diameter, lens color: Water Clear with flange, housing without standoff leads, complaint with RoHS</p>

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward Current		I_F	30	mA
Peak forward current	(1/10 Duty Cycle @1KHz)	I_{FM}	100	mA
Power dissipation		P_D	120	mW
Operating temp. range		T_{amb}	-40 to +85	$^{\circ}\text{C}$
Storage temp. range		T_{stg}	-40 to +100	$^{\circ}\text{C}$
Lead soldering temp.	$t < 5\text{s}$, 3mm 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	3.8	V
Reverse current	V_R	$I_R = 10\mu\text{A}$	5			V
Luminous intensity	I_v	$I_F = 20\text{mA}$	20	30		mcd
Peak wavelength	λ_p	$I_F = 20\text{mA}$	395	400	405	nm
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	400	410	420	nm
Spectral bandwidth at 50%	$\Delta\lambda_{0,5}$	$I_F = 20\text{mA}$		30		nm
Viewing angle	φ	$I_F = 20\text{mA}$		30		deg.

Tolerance of Viewing Angle: -10/+5deg.

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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.



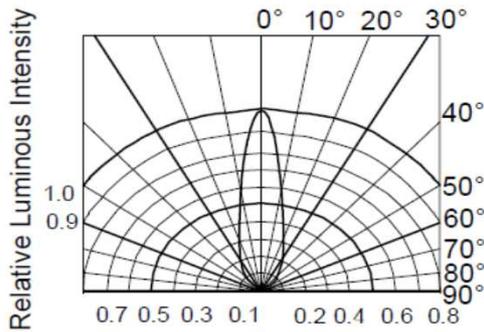
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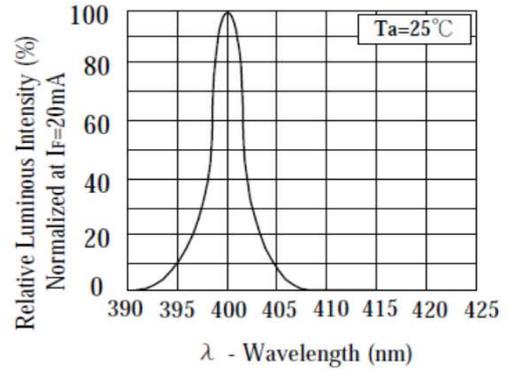
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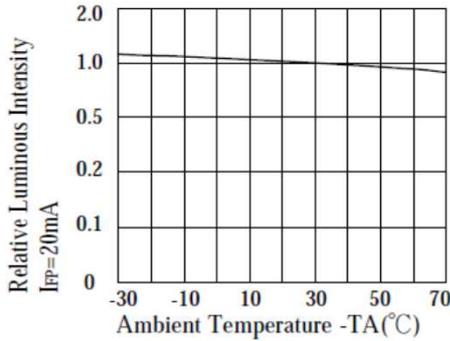
Typical optical-electrical characteristic curves	page 2/2
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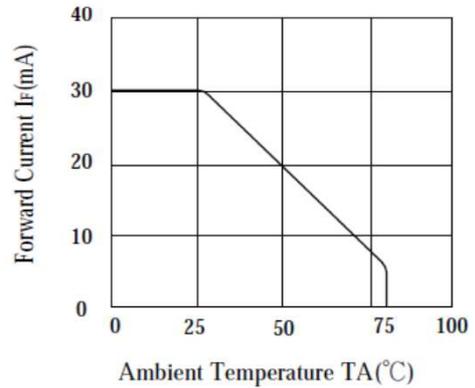
RADIATION DIAGRAM



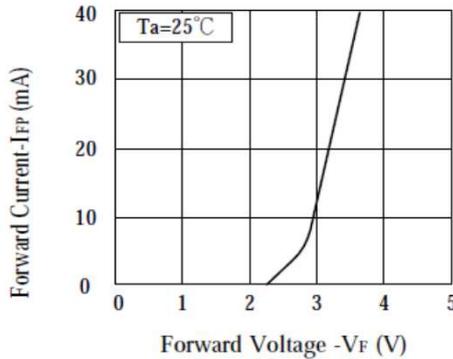
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



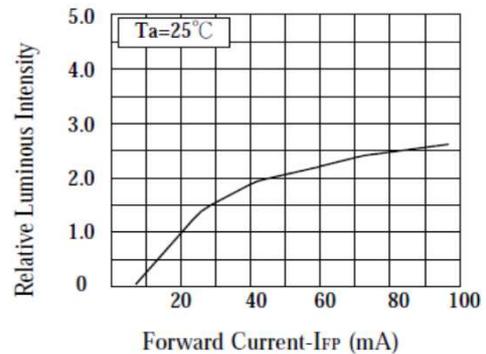
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

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