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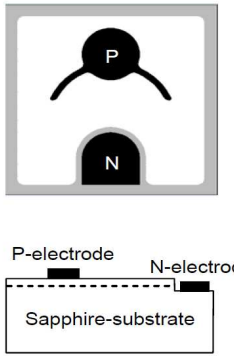
Data Sheet

LED Chip blue — EOLC-460-34

Rev. 01, 2015

Radiation	Type	Electrodes
Blue	InGaN / sapphire	N+P-up



Chip size: 13 mil x 13 mil (330 ± 25 µm x 330 ± 25 µm)

Thickness: 3.5 mil (90 ± 10 µm)

N, P bonding pads: Ø3.5 mil (Ø90 ± 25 µm), Au alloy

100% probing test

Passivation layer on top

Absolute Maximum Ratings

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

Parameter	Symbol	Rating	Unit
Forward DC current	I_F	30	mA
Reverse voltage	I_R	5	V
Junction temperature	T_J	115	°C
Storage temperature chip	T_{STG}	-40…+85	°C
Storage temperature chip on tape	T_{STG}	+0…+40	°C
Transport. temperature chip on tape	T_{STG}	-20…+65	°C
Soldering temperature	T_{SOL}	+280 (10 sec)	°C

Optical and Electrical Characteristics

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

Parameter	Symbol	Cond.	Min	Typ	Max	Unit
Forward voltage	V_F	I_F=10 µA	2.0			V
Forward voltage	V_F	I_F=20 mA	2.8		3.6	V
Reverse current	I_R	V_R=5 V			2	µA
Radiant flux	I_V	I_F=20 mA	125	150		mcd
Dominant wavelength	λ_D	I_F=20 mA	455	460	465	nm
FWHM	$\Delta\lambda$	I_F=20 mA		25		nm

*Measured on gold plate without an encapsulant

Packing

Dice on adhesive film with wire-bond on top

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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Fig.1-Relative Luminous Intensity vs. Forward Current

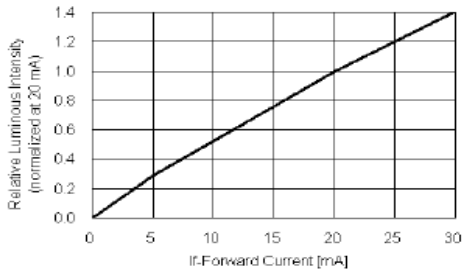


Fig.2- Forward Current vs. Forward Voltage

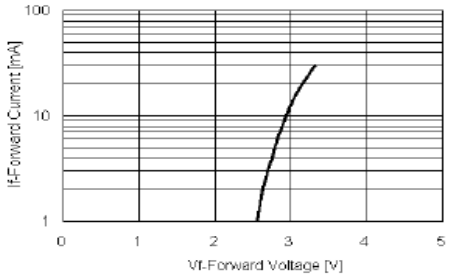


Fig.3-Relative Intensity (@20mA) vs. Ambient Temperature

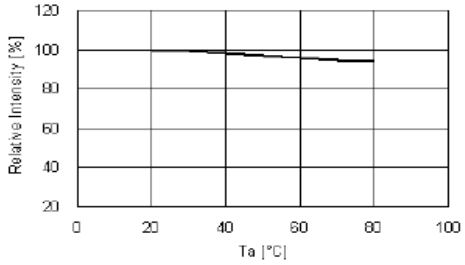


Fig.4-Forward Voltage (@20mA) vs. Ambient Temperature

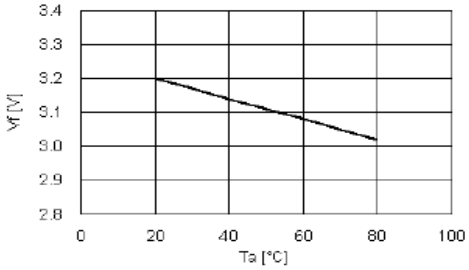


Fig.5-Dominant Wavelength(@20mA) vs. Ambient Temperature

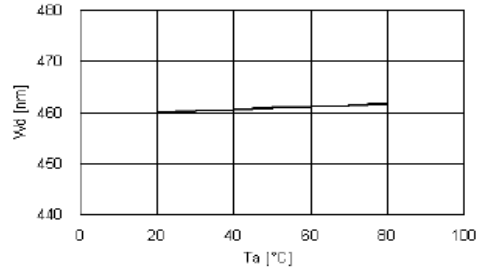
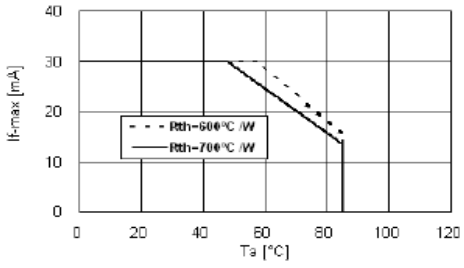


Fig.6 Maximum Driving Forward DC Current vs. Ambient Temperature (Derating based on Tj max. = 115ºC)



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