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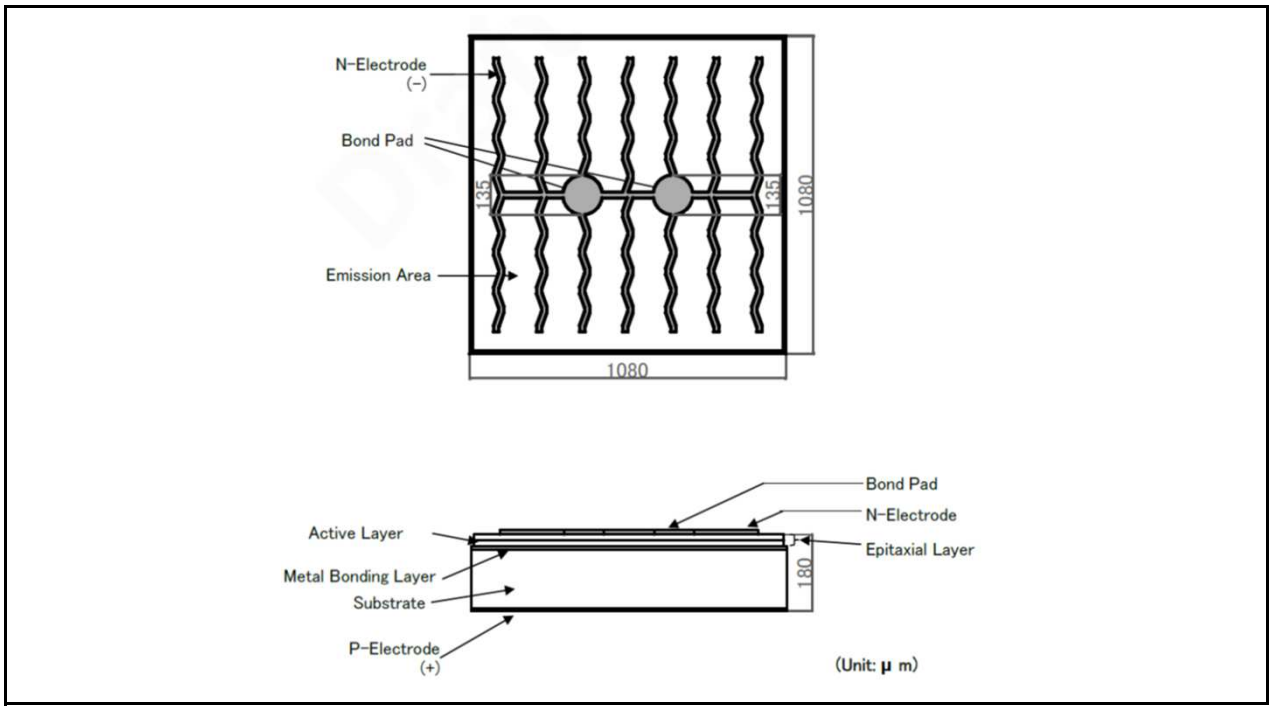
Data Sheet **Preliminary**

Infrared LED Chip **EOLC-1200-21**

Rev. 02, 2019

Radiation	Type	Electrodes
Infrared	InGaAs - based material, MQW	n (cathode) up



Die size (typ.): 1.080 mm × 1.080 mm (42 mil)
Thickness (typ.): 0.180 mm (7 mil)
Bond pads size: Ø 0.130 mm (perifery = Ø 0.135 mm)
Contact metallization anode and cathode: gold alloy

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Continuous forward current*		I_F	1000	mA
Peak forward current*		I_{FP}	2000	mA
Reverse current	I_R= 5 V	I_R	10	µA
Junction temperature		T_J	120	°C

*For reference only

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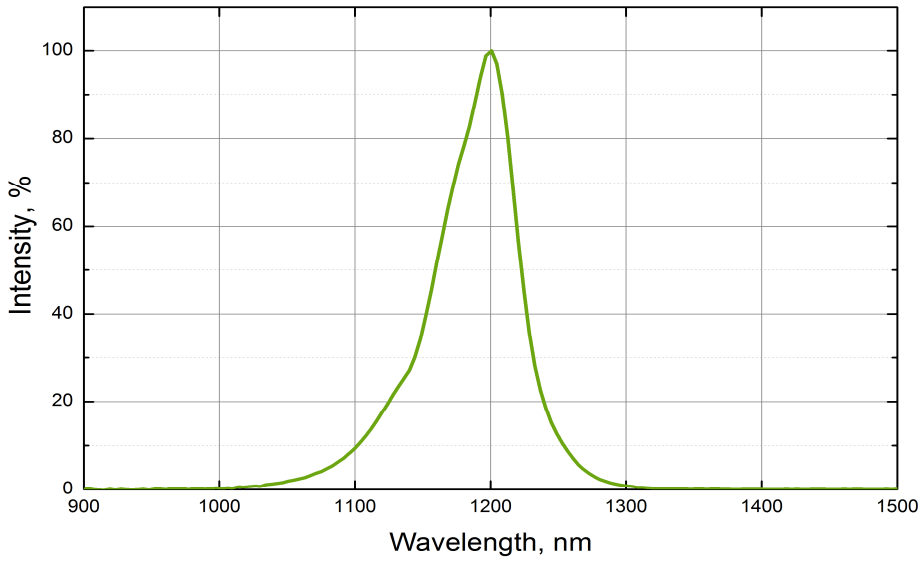
Optical and Electrical Characteristics
T_{amb}= 25°C, unless otherwise specified

Parameter	Test cond.	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=20 mA	V_F		0.90		V
Radiant power**	I_F=20 mA	Φ_e		4.3		mW
Peak wavelength	I_F=20 mA	λ_p		1200		nm
FWHM	I_F=20 mA	$\Delta\lambda_{0.5}$		45		nm
Forward voltage	I_F=350 mA	V_F		1.1		V
Radiant power**	I_F=350 mA	Φ_e		56		mW
Peak wavelength	I_F=350 mA	λ_p		1200		nm
FWHM	I_F=350 mA	$\Delta\lambda_{0.5}$		62		nm
Forward voltage	I_F=700 mA	V_F		1.23		V
Radiant power**	I_F=700 mA	Φ_e		90		mW
Peak wavelength	I_F=700 mA	λ_p		1200		nm
FWHM	I_F=700 mA	$\Delta\lambda_{0.5}$		70		nm
Forward voltage	I_F=1000 mA	V_F		1.33		V
Radiant power**	I_F=1000 mA	Φ_e		110		mW
Peak wavelength	I_F=1000 mA	λ_p		1200		nm
FWHM	I_F=1000 mA	$\Delta\lambda_{0.5}$		74		nm

*Measured on bare chip on star board
**For silicon covered chip on star board



Spectrum at 350 mA

RoHS COMPLIANT Pb Pb-Free

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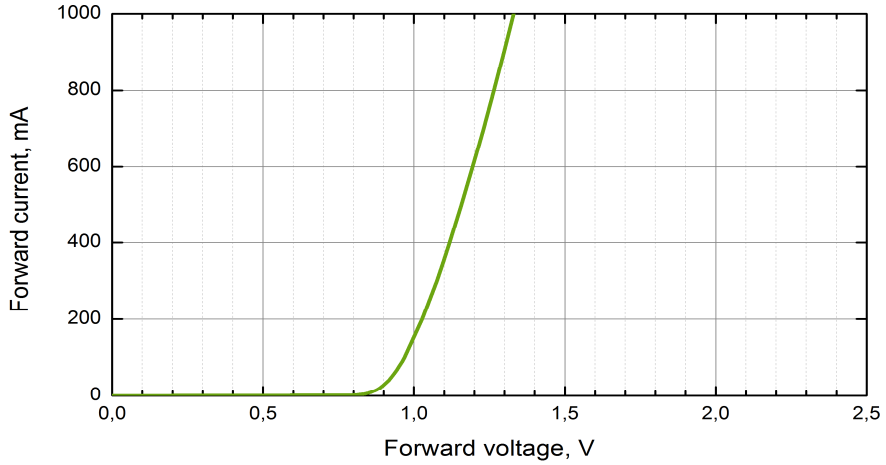
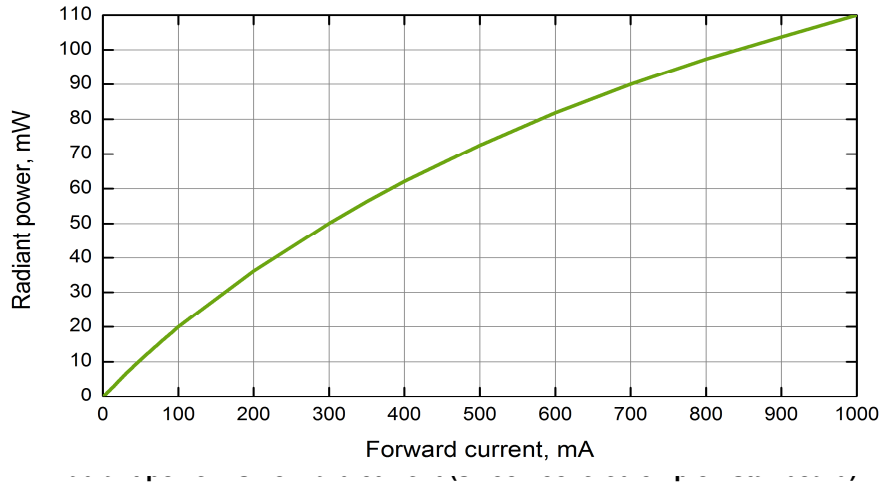


Forward current vs. forward voltage



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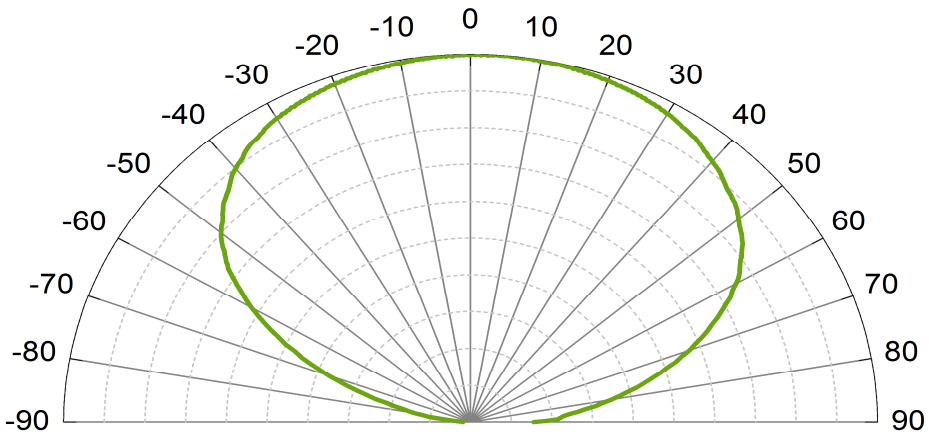

Radiation pattern

Packing

Dice on adhesive film with wire bond side up.

Art. No. 113 xxx

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