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Data Sheet

Preliminary

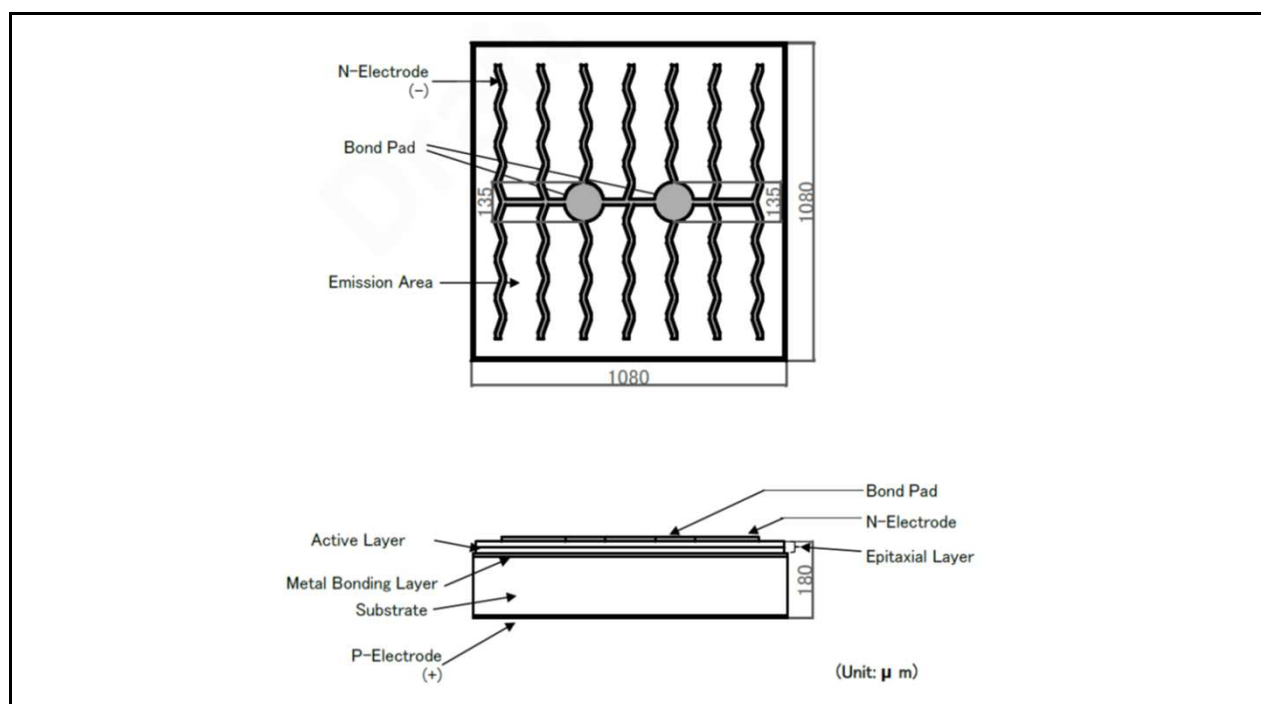
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Infrared LED Chip

EOLC-1450-21

Rev. 01, 2019

Radiation	Type	Electrodes
Infrared	InGaAs - based material	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 (periphery = 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
Reverse current		I _R	10	µA

*For reference only



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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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		1		V
Radiant power*	I _F =20 mA	Φ _e		3		mW
Peak wavelength	I _F =20 mA	λ _p	1400	1450	1500	nm
FWHM	I _F =20 mA	Δλ _{0.5}		75		nm
Forward voltage	I _F =350 mA	V _F		1	1.4	V
Radiant power*	I _F =350 mA	Φ _e		30		mW
Peak wavelength	I _F =350 mA	λ _p	1400	1450	1500	nm
FWHM	I _F =350 mA	Δλ _{0.5}		75		nm
Forward voltage	I _F =1000 mA	V _F		1	1.5	V
Radiant power*	I _F =1000 mA	Φ _e		50		mW
Peak wavelength	I _F =1000 mA	λ _p	1400	1450	1500	nm
FWHM	I _F =1000 mA	Δλ _{0.5}		75		nm

*Measured on silicon covered chip on star board

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