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Data Sheet

Preliminary

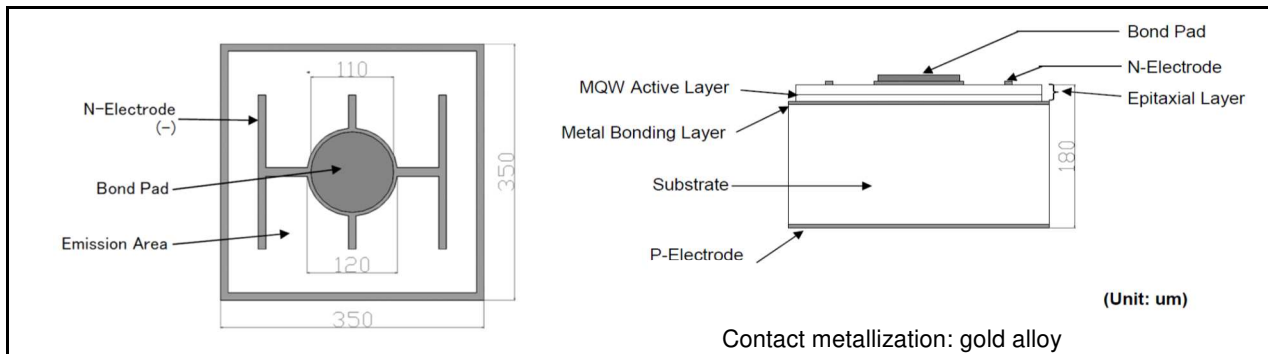
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LED Chip Infrared

EOLC-1040-27D

Rev. 03, 2020

Radiation	Type	Electrodes
Infrared	MQW	n (cathode) up



Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	120	mA
Reverse voltage		V_R	5	V

Optical and Electrical Characteristics

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

Parameter	Test cond.	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	V_F		1.25		V
Reverse current	$V_R = 5 \text{ V}$	I_R			10	μA
Radiant power*	$I_F = 20 \text{ mA}$	Φ_e		5		mW
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p		1040		nm
FWHM	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		33		nm
Rise time	$I_F = 20 \text{ mA}$	t_r		13		ns
Fall time	$I_F = 20 \text{ mA}$	t_f		18		ns

*Measured on bare chip on TO-18 header



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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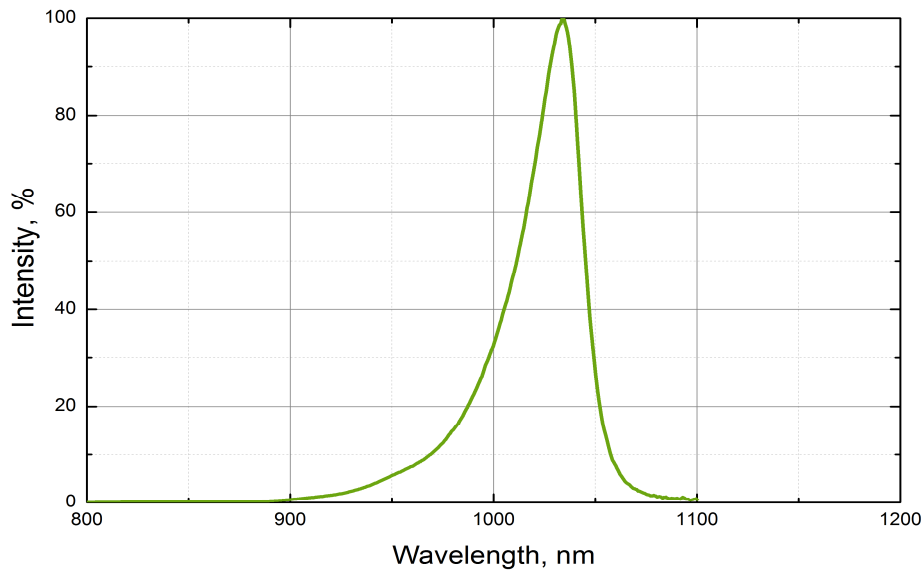
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EOLC-1040-27

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Spectrum @ 20 mA

Art. No. 131 171



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