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Data Sheet

Preliminary

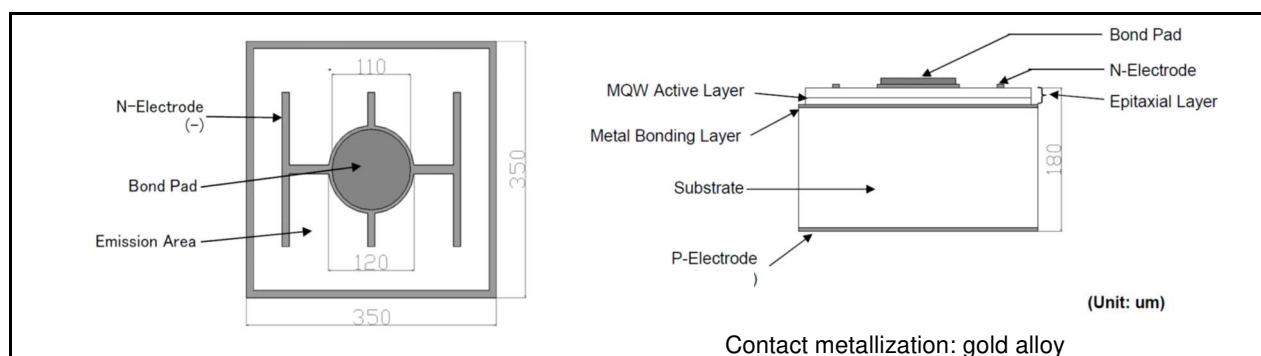
Page 1 of 3

LED Chip Infrared

EOLC-1550-27

Rev. 03, 2020

Radiation	Type	Electrodes
Infrared	MQW	n (cathode) up



Die size (typ.): 0.350 mm × 0.350 mm (14 mil)

Thickness (typ.): 0.180 mm (7 mil)

Bond pad size: Ø 0.110 mm (periphery = Ø 0.120 mm)

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	120	mA
Peak forward current	t _p ≤ 1 ms, duty cycle ≤ 5%	I _{FP}	1000	mA

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		0.9		V
Radiant power*	I _F =20 mA	Φ _e		2.9		mW
Peak wavelength	I _F =20 mA	λ _p		1550		nm
FWHM	I _F =20 mA	Δλ _{0.5}		109		nm
Forward voltage	I _F =50 mA	V _F		0.96		V
Radiant power*	I _F =50 mA	Φ _e		5.1		mW
Forward voltage	I _F =100 mA	V _F		1.05		V
Radiant power*	I _F =100 mA	Φ _e		6.8		mW

*Measured on bare chip on TO-18 header

Packing

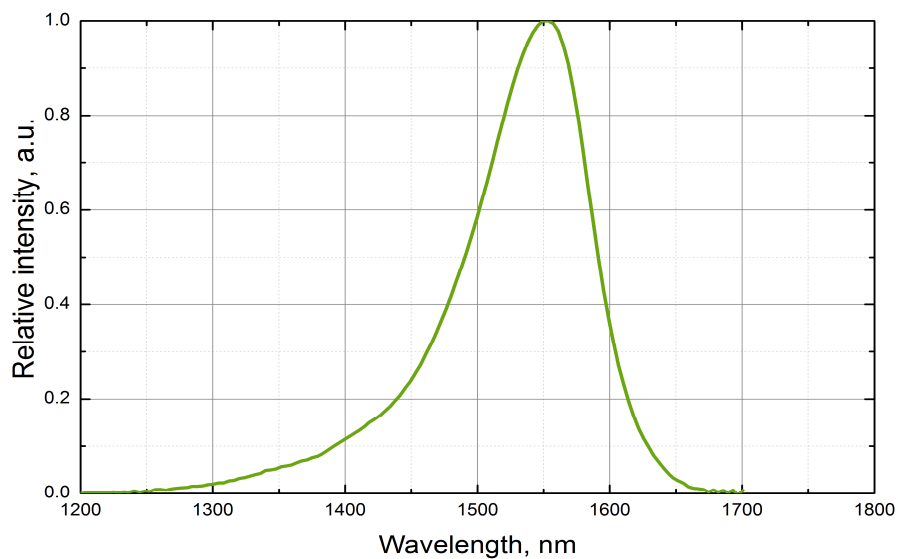
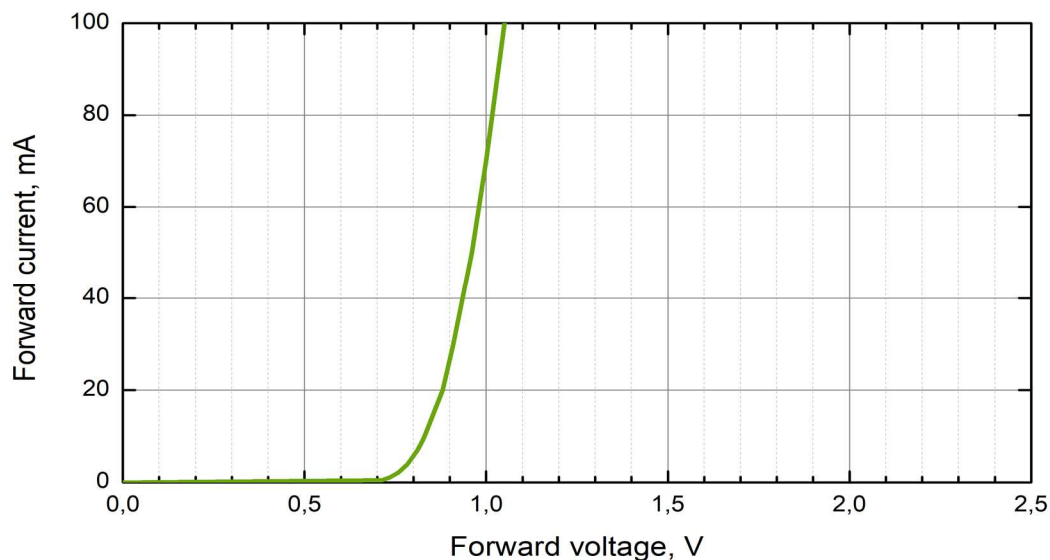
Dice on adhesive film with wire bond side up.



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.

Data Sheet**Preliminary****Page 2 of 3****LED Chip Infrared****EOLC-1550-27**

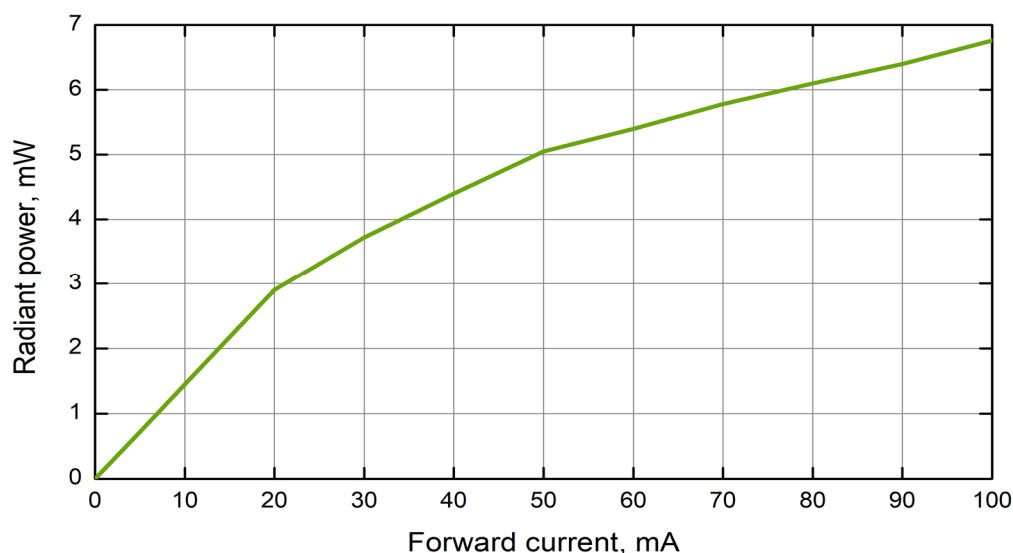
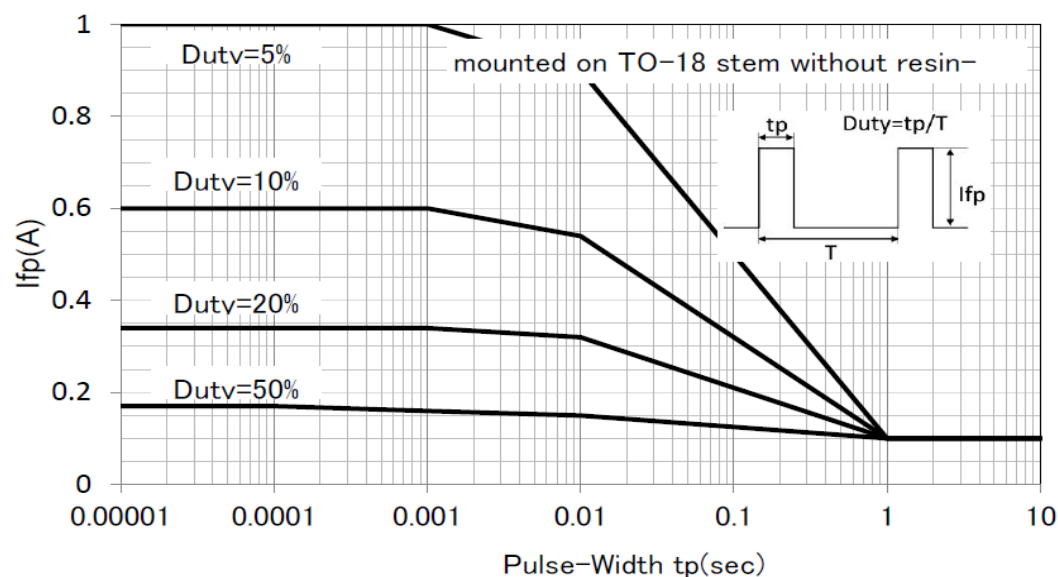
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**Spectrum at 20 mA****Forward current vs. forward voltage**

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Data Sheet**Preliminary****Page 3 of 3****LED Chip Infrared****EOLC-1550-27**

Rev. 03, 2020

**Radiant power vs. forward current****Permissible pulse handling capability at 25 °C.**

Art. No. 131 163



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