

# EPIGAP Optronic GmbH

Koepenicker Str. 325b  
 D-12555 Berlin  
 Fon: +49 (0)30 657637 60  
 Fax: +49 (0)30 657637 70  
 sales@epigap-optronic.de



## Data Sheet

## Preliminary

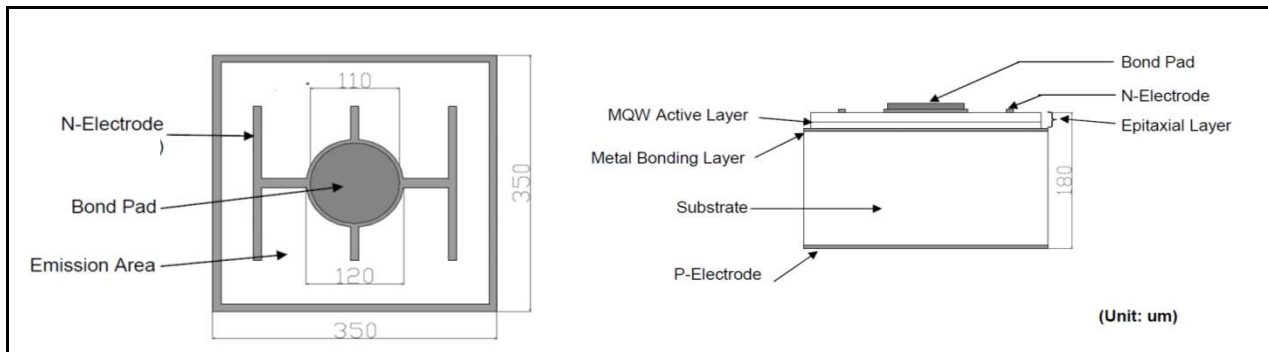
Page 1 of 3

## LED Chip Infrared

## EOLC-880-25-1D

Rev. 01, 2015

Radiation	Type	Electrodes
Infrared	InAlGaAs-epitaxial layer, MQW / Si	n up



### Optical and Electrical Characteristics

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

Parameter	Test cond.	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	$V_F$		1.35		V
Forward voltage	$I_F = 70 \text{ mA}$	$V_F$		tbd		V
Forward voltage	$I_F = 100 \text{ mA}$	$V_F$		tbd		V
Reverse current	$V_R = 5 \text{ V}$	$I_R$			10	$\mu\text{A}$
Radiant power*	$I_F = 20 \text{ mA}$	$\Phi_e$		8.5		mW
Radiant power*	$I_F = 50 \text{ mA}$	$\Phi_e$		est. 26		mW
Radiant power*	$I_F = 70 \text{ mA}$	$\Phi_e$		est. 36		mW
Radiant power*	$I_F = 100 \text{ mA}$	$\Phi_e$		est. 43		mW
Radiant power**	$I_F = 20 \text{ mA}$	$\Phi_e$		est. 15		mW
Radiant power**	$I_F = 50 \text{ mA}$	$\Phi_e$		est. 41		mW
Radiant power**	$I_F = 70 \text{ mA}$	$\Phi_e$		est. 57		mW
Radiant power**	$I_F = 100 \text{ mA}$	$\Phi_e$		est. 79		mW
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_p$		880		nm
FWHM	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		25		nm

\* bare chip on TO-18 socket without encapsulation, \*\* chip on TO-18 socket with epoxy encapsulation

### Packing

Dice on adhesive film with wire bond side up.

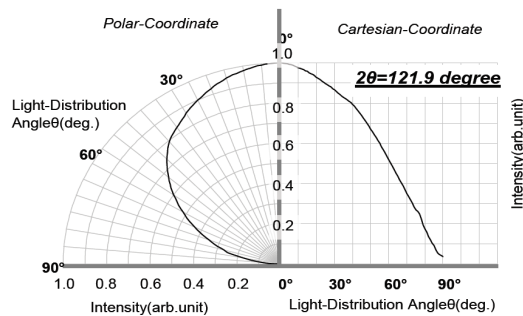
### Labeling

Type	Lot N°	$\Phi_e$ (typ/ min/ max) [mW]	Qty.
EOLC-880-25-1			

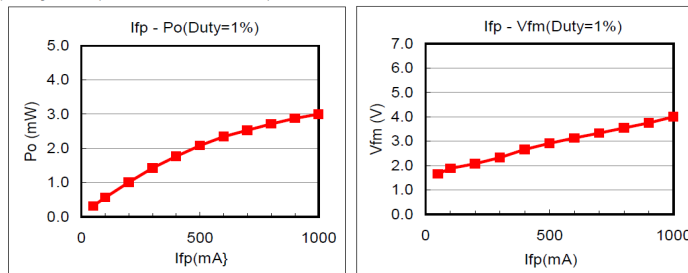


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

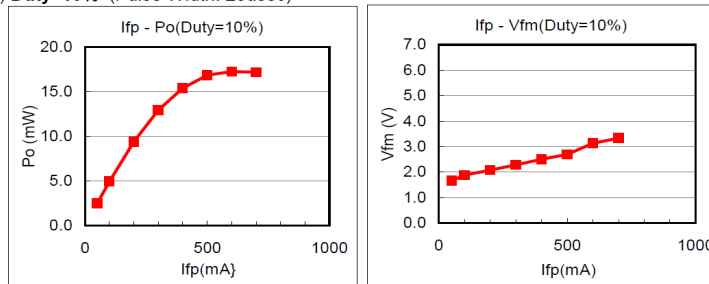
<Measurement condition>  
 LED-chip is mounted on TO-18 gold stem without resin coated )  
 If=10mA  
 Distance: 200mm  
 Ta=R.T.



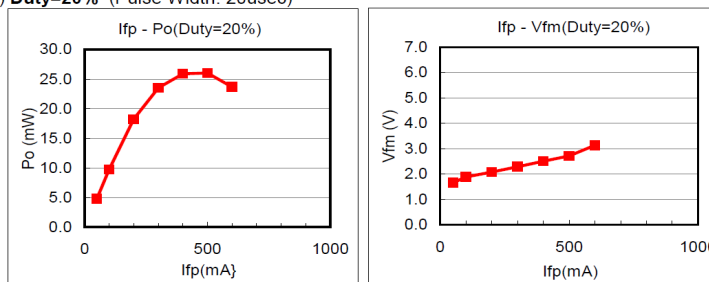
(1) **Duty=1%** (Pulse Width: 20usec)



(2) **Duty=10%** (Pulse Width: 20usec)



(3) **Duty=20%** (Pulse Width: 20usec)



# EPIGAP Optronik GmbH

Koepenicker Str. 325b  
D-12555 Berlin  
Fon: +49 (0)30 657637 60  
Fax: +49 (0)30 657637 70  
sales@epigap-optronic.de



Data Sheet

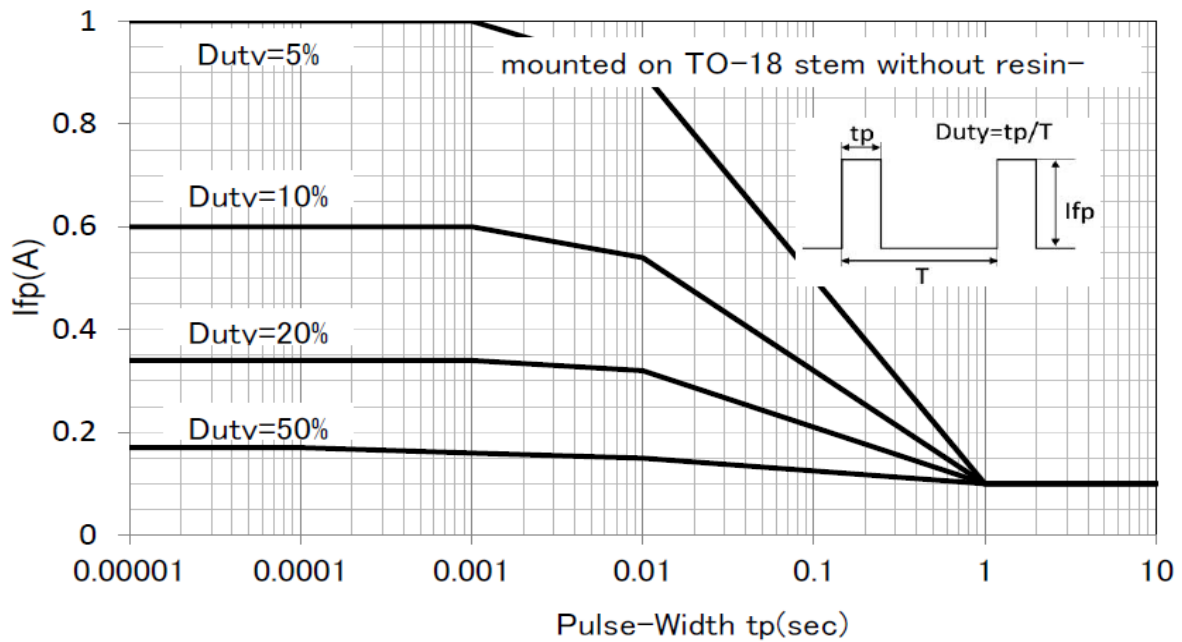
Preliminary

Page 3 of 3

LED Chip Infrared

EOLC-880-25-1

Rev. 01, 2015



Permissible pulse handling capability at 25 °C.



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.