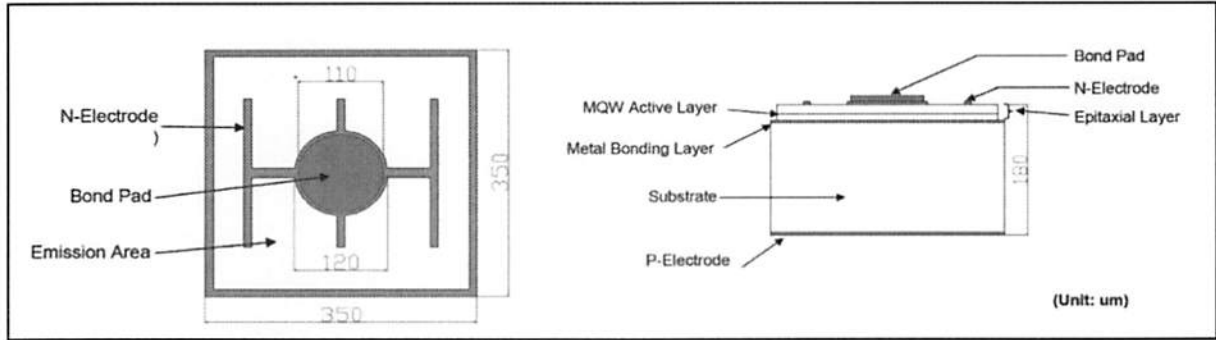


LED Chip Infrared

EOLC-880-25-1D

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



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 | | 1.35 | | V |
| Forward voltage | I _F =70 mA | V _F | | tbd | | V |
| Forward voltage | I _F =100 mA | V _F | | tbd | | V |
| Reverse current | V _R =5 V | I _R | | | 10 | μA |
| Radiant power* | I _F =20 mA | Φ _e | | 8.5 | | mW |
| Radiant power* | I _F =50 mA | Φ _e | | est. 26 | | mW |
| Radiant power* | I _F =70 mA | Φ _e | | est. 36 | | mW |
| Radiant power* | I _F =100 mA | Φ _e | | est. 43 | | mW |
| Radiant power** | I _F =20 mA | Φ _e | | est. 15 | | mW |
| Radiant power** | I _F =50 mA | Φ _e | | est. 41 | | mW |
| Radiant power** | I _F =70 mA | Φ _e | | est. 57 | | mW |
| Radiant power** | I _F =100 mA | Φ _e | | est. 79 | | mW |
| Peak wavelength | I _F =20 mA | λ _p | | 880 | | nm |
| FWHM | I _F =20 mA | Δλ _{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

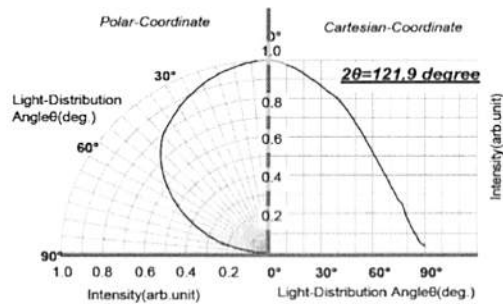
| Type | Lot N° | Φ _e (typ/ min/ max) [mW] | Qty. |
|---------------|--------|-------------------------------------|------|
| EOLC-880-25-1 | | | |



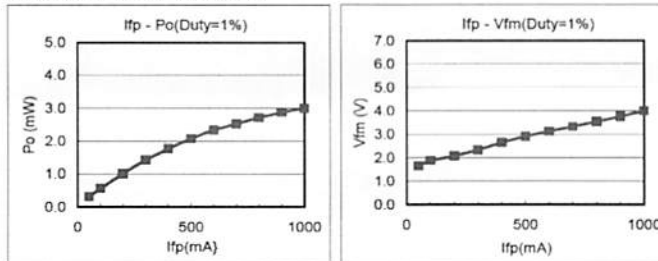
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.



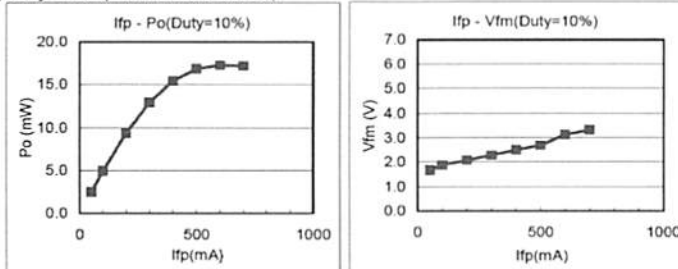
<Measurement condition>
 LED-chip is mounted on TO-18 gold stem without resin coated)
 If=10mA
 Distance: 200mm
 Ta=R.T.



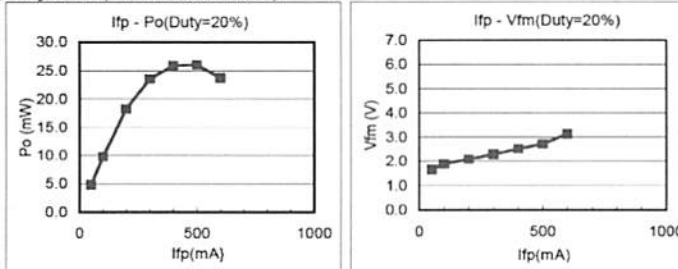
(1) Duty=1% (Pulse Width: 20usec)



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



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



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Data Sheet

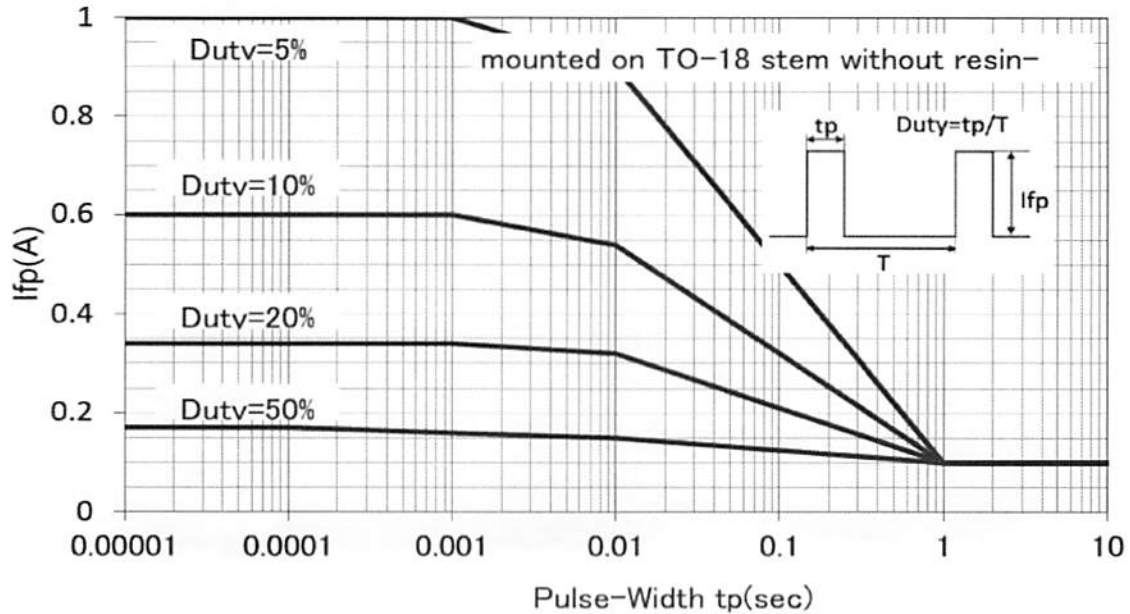
Preliminary

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LED Chip Infrared

EOLC-880-25-1

Rev. 01, 2015



Permissible pulse handling capability at 25 °C.



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