

EPIGAP Optronic GmbH

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



Data Sheet

Preliminary

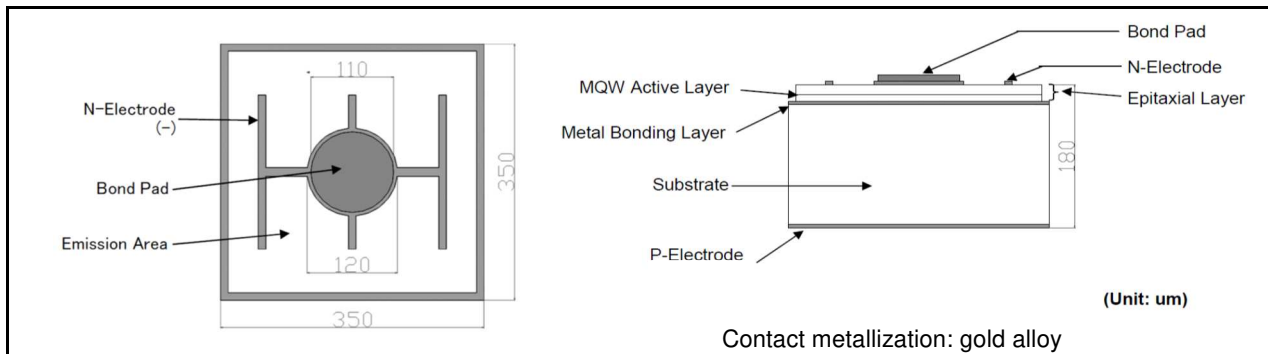
Page 1 of 2

LED Chip Infrared

EOLC-1040-27

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.

EPIGAP Optronic GmbH

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



Data Sheet

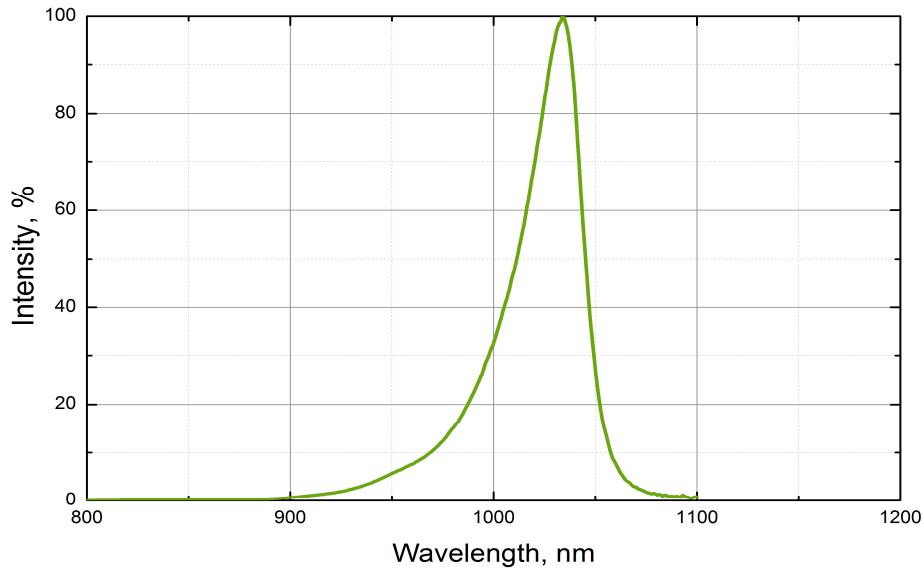
Preliminary

Page 2 of 2

LED Chip Infrared

EOLC-1040-27

Rev. 03, 2020



Spectrum @ 20 mA

Art. No. 131 171



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.