

EPIGAP Optronik GmbH

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



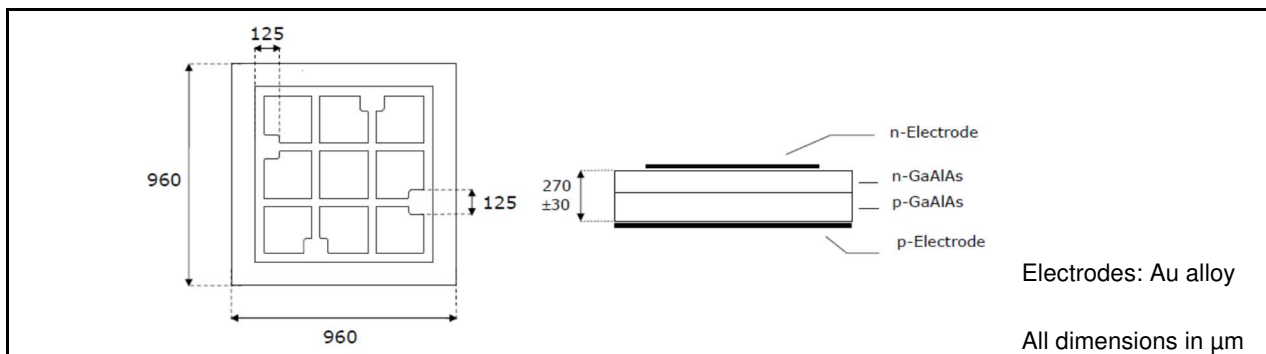
Data Sheet

LED Chip Infrared

EOLC-890-21

Rev. 01, 2020

| Radiation | Type | Electrodes |
|-----------|--------------------|----------------|
| Infrared | AlGaAs/AlGaAs, DDH | N (cathode) up |



Optical and Electrical Characteristics

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

| Parameter | Test cond. | Symbol | Min | Typ | Max | Unit |
|------------------|------------------------|-----------------------|-----|------|------|---------------|
| Forward voltage | $I_F = 100 \text{ mA}$ | V_F | | 1.25 | 1.45 | V |
| Forward voltage | $I_F = 350 \text{ mA}$ | V_F | | 1.4 | 1.65 | V |
| Reverse current | $V_R = 5 \text{ V}$ | I_R | | | 10 | μA |
| Reverse voltage* | $I_R = 10 \mu\text{A}$ | V_R | 5 | | | μA |
| Radiant power** | $I_F = 50 \text{ mA}$ | Φ_e | 3.5 | 4.5 | | mW |
| Peak wavelength | $I_F = 100 \text{ mA}$ | λ_p | 875 | 890 | 905 | nm |
| Peak wavelength* | $I_F = 350 \text{ mA}$ | λ_p | | 900 | | nm |
| FWHM | $I_F = 100 \text{ mA}$ | $\Delta\lambda_{0.5}$ | | 68 | | nm |
| Switching time | $I_F = 100 \text{ mA}$ | t_r, t_f | | 1500 | | ns |

*For information only

**Measured on bare chip on TO-18 header

Packing

Chips on adhesive film with wire bond side up

Art. No. 113 095



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.