

# EPIGAP Optronik GmbH

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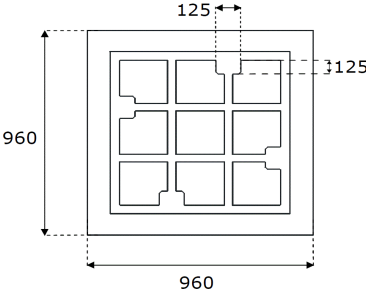
## Data Sheet

### LED Chip Infrared

EOLC-850-11

Rev. 04, 2017

| Radiation | Type               | Electrodes   |
|-----------|--------------------|--------------|
| Infrared  | AlGaAs/AlGaAs, DDH | P (anode) up |

|   |  |
|---|--|
|  | <p>typ. dimension (<math>\mu\text{m}</math>)</p> <p>typ. thickness <math>160 \pm 25 \mu\text{m}</math></p> <p>anode - gold alloy, <math>1.5 \mu\text{m}</math></p> <p>cathode - gold alloy, <math>0.5 \mu\text{m}</math><br/>structured, 25% covered</p> |
|---|--|

### Optical and Electrical Characteristics

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

| Parameter       | Test cond.              | Symbol                | Min | Typ    | Max | Unit |
|-----------------|-------------------------|-----------------------|-----|--------|-----|------|
| Forward voltage | $I_F = 100 \text{ mA}$  | $V_F$                 |     | 1.35   |     | V    |
| Forward voltage | $I_F = 350 \text{ mA}$  | $V_F$                 |     | 1.7    | 1.9 | V    |
| Reverse voltage | $I_R = 100 \mu\text{A}$ | $V_R$                 | 5   |        |     | V    |
| Radiant power*  | $I_F = 20 \text{ mA}$   | $\Phi_e$              |     | 4      |     | mW   |
| Radiant power*  | $I_F = 350 \text{ mA}$  | $\Phi_e$              |     | 60     |     | mW   |
| Peak wavelength | $I_F = 350 \text{ mA}$  | $\lambda_p$           | 840 | 850    | 860 | nm   |
| FWHM            | $I_F = 350 \text{ mA}$  | $\Delta\lambda_{0.5}$ |     | 45     |     | nm   |
| Switching time  | $I_F = 20 \text{ mA}$   | $t_r, t_f$            |     | 15; 20 |     | ns   |

\*Measured on bare chip on TO-18 header

### Packing

Chips on adhesive film with wire bond side up

Art. No. 113 094



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.