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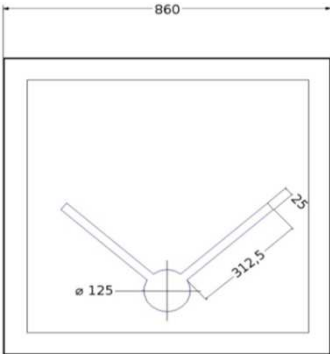


Selective Photodiode Chip

EOPC-525-0.86

Rev. 02, 2017

| Radiation | Type | Electrodes |
|-----------|---------|--------------|
| green | GaP/GaP | p (anode) up |

| | |
|---|--|
|  | <p>Dimensions:</p> <ul style="list-style-type: none">- Chip size: 860 x 860 μm- Active area: 0.57 mm²- Thickness: typ. 270 ± 30 μm- Bonding pad: 125 ± 15 μm <p>Electrodes / Metallization:</p> <ul style="list-style-type: none">- p-side up (anode): Au alloy, 2.1 μm typical- n-side (cathode): Au alloy, 0.5 μm typical |
|---|--|

Maximum Ratings

T_{amb} = 25°C, unless otherwise specified

| Parameter | Symbol | Value | Unit |
|---------------------------------------|-------------------|-------------|------|
| Operating temperature range | T _{opt} | -40 to +120 | °C |
| Storage temperature range bare chip | T _{stor} | -40 to +120 | °C |
| Storage temp. range chip on blue tape | T _{stor} | +5 to +35 | °C |
| Reverse voltage | V _{Rmax} | 5 | V |

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

| Parameters | Symbol | Min | Typ | Max | Unit |
|---------------------------------------|--------------------|------|------|------|------|
| Dark current @ V _R = 0 V | I _D | | 5 | 30 | pA |
| Photocurrent @ V _R = 0 V | I _{Ph} | 120 | 200 | | nA |
| Forward voltage @ 100 mA | V _F | | 2.25 | 2.45 | V |
| Wavelength of maximum sensitivity | λ _C | 510 | 525 | 535 | nm |
| Spectral range @ 0.5 S _{max} | λ _{0.5} | 480 | | 560 | nm |
| Spectral BW @ 0.5 S _{max} | Δλ _{0.5} | | 75 | | nm |
| Responsivity @ 525 nm* | S _{525nm} | 0.04 | 0.08 | | A/W |
| Temp. coefficient of I _D | TCI _D | | 4.7 | | %/K |
| Temp. coefficient of I _{Ph} | TCI _{Ph} | | 0.25 | | %/K |
| Temp. coefficient of λ _C | TCλ _C | | 0.15 | | nm/K |

* for reference only

Art. No. 122 004



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.