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Data Sheet

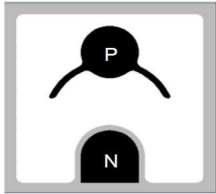
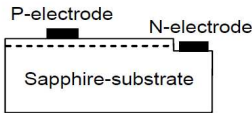
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LED Chip blue

EOLC-460-34

Rev. 02, 2017

| Radiation | Type | Electrodes |
|-----------|------------------|------------|
| Blue | InGaN / sapphire | N+P-up |

| | |
|---|---|
|   | Chip size: 13 mil x 13 mil (330 ± 25 µm x 330 ± 25 µm) Thickness: 3.5 mil (90 ± 10 µm) N, P bonding pads: Ø3.5 mil (Ø90 ± 25 µm), Au alloy 100% probing test Passivation layer on top |
|---|---|

Absolute Maximum Ratings

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

| Parameter | Symbol | Rating | Unit |
|-------------------------------------|------------------|---------------|------|
| Forward DC current | I _F | 30 | mA |
| Reverse voltage | I _R | 5 | V |
| Junction temperature | T _J | 115 | °C |
| Storage temperature chip | T _{STG} | -40...+85 | °C |
| Storage temperature chip on tape | T _{STG} | +0...+40 | °C |
| Transport. temperature chip on tape | T _{STG} | -20...+65 | °C |
| Soldering temperature | T _{SOL} | +280 (10 sec) | °C |

Optical and Electrical Characteristics

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

| Parameter | Symbol | Cond. | Min | Typ | Max | Unit |
|---------------------|-------------------|-----------------------|-----|-----|-----|------|
| Forward voltage | V _F | I _F =10 µA | 2.0 | | | V |
| Forward voltage | V _F | I _F =20 mA | 2.8 | | 3.6 | V |
| Reverse current | I _R | V _R =5 V | | | 2 | µA |
| Radiant power* | I _V | I _F =20 mA | 125 | 150 | | mcd |
| Dominant wavelength | λ _D | I _F =20 mA | 455 | 460 | 465 | nm |
| FWHM | Δλ _{0.5} | I _F =20 mA | | 25 | | nm |

*Measured on bare chip on TO-18 header

Packing

Dice on adhesive film with wire-bond on top



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.