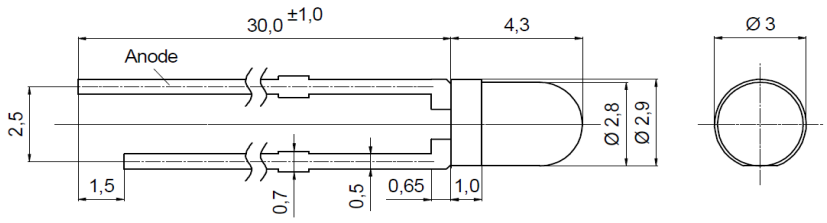
**EPIGAP Optronic GmbH**
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

# Data sheet

## Infrared LED EOLD-760-324 Rev. 03, 2017

| Radiation | Type | Case |
|---|---|---|
| Infrared | AlGaAs/AlGaAs, DDH | 3 mm plastic lens |




All dimensions in mm

**Description:**

High-power, high-speed infrared LED with lens, standard 3 mm package allows compact design, housing without standoff leads

**Application:**

Optical communications, safety equipment, automation

### Maximum Ratings

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

| Parameter | Test Conditions | Symbol | Value | Unit |
|---|---|---|---|---|
| Forward current | | $I_F$ | 50 | mA |
| Peak forward current | $t_p \leq 50$ µs, $t_p/T = ½$ | $I_{FM}$ | 100 | mA |
| Power dissipation | | $P_D$ | 120 | mW |
| Operating temperature range | | $T_{amb}$ | -20 to +80 | °C |
| Storage temperature range | | $T_{stg}$ | -55 to +85 | °C |
| Junction temperature | | $T_J$ | 100 | °C |
| Lead soldering temperature | t< 5 s, 3 mm from case | $T_{slg}$ | 260 | °C |

### Optical and Electrical Characteristics

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

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | $V_F$ | $I_F$= 20 mA | | 1.7 | 2.0 | V |
| Forward voltage | $V_F$ | $I_F$= 50 mA | | 2.0 | | V |
| Reverse voltage | $V_R$ | $I_R$= 100 µA | 5 | | | V |
| Radiant power | $\Phi_e$ | $I_F$= 20 mA | 4 | 6 | | mW |
| Radiant power | $\Phi_e$ | $I_F$= 50 mA | | 14 | | mW |
| Radiant intensity | $I_e$ | $I_F$= 20 mA | 24 | 30 | | mW/sr |
| Radiant intensity | $I_e$ | $I_F$= 50 mA | | 70 | | mW/sr |
| Peak wavelength | $\lambda_p$ | $I_F$= 20 mA | 750 | 760 | 775 | nm |
| FWHM | $\Delta\lambda_{0,5}$ | $I_F$= 20 mA | | 30 | | nm |
| Viewing angle | $\varphi$ | $I_F$= 20 mA | | 20 | | deg. |
| Switching time | $t_r$, $t_f$ | $I_F$= 20 mA | | 35 | | ns |

Art. No. 430 034

RoHS COMPLIANT Pb Pb-Free