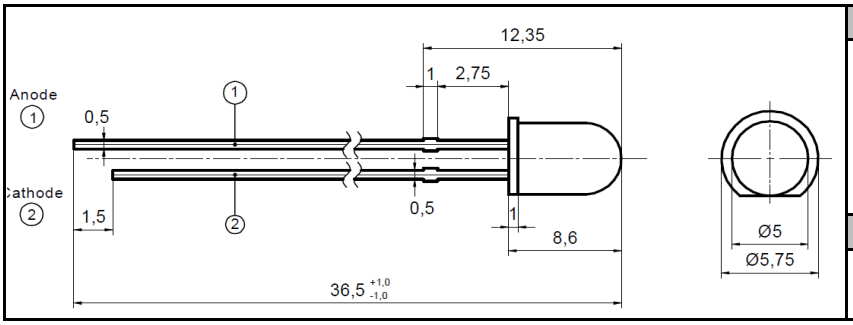
EPIGAP Optronic GmbH
Koepenicker Str. 325b
D-12555 Berlin
Fon: +49 (0)30 657637 60
Fax: +49 (0)30 657637 70
sales@epigap-optronic.de

Data sheet

Infrared LED — EOLD-760-524

Rev. 05, 2017

Radiation	Type	Case
Infrared	AlGaAs/AlGaAs, DDH	5 mm plastic lens



All dimensions in mm

Description:

High-power, high-speed infrared LED in standard 5 mm package, with lens for narrow beam focusing, housing optional with or 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	100	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	V
Forward voltage	V_F	I_F= 50 mA		2		V
Reverse voltage	V_R	I_R= 100 µA	5			V
Radiant power	Φ_e	I_F= 20 mA	4	6		mW
Radiant power	Φ_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	λ_p	I_F= 20 mA	750	760	775	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		30		nm
Temp. coefficient of λ	$\Delta\lambda/\Delta T$	I_F= 20 mA		+0.22		nm/K
Current tuning coeff.	$\Delta\lambda/\Delta I$			+0.126		nm/mA
Viewing angle	φ	I_F= 20 mA		20		deg.
Switching time	t_r, t_f	I_F= 20 mA		35		ns

RoHS COMPLIANT — Pb Pb-Free

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.

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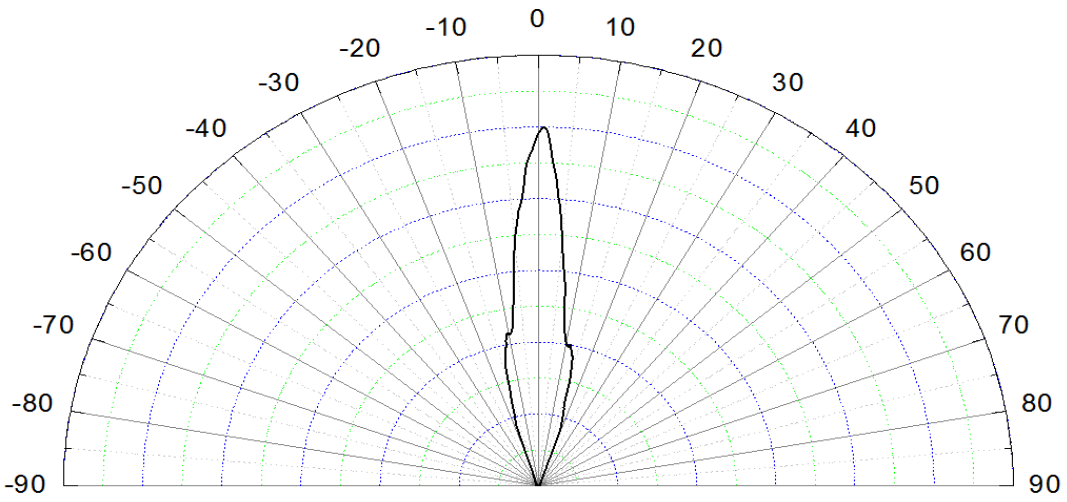

Typical radiation pattern

Art. No. 430 049

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