

EPIGAP Optronik GmbH

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Data sheet

Page 1 of 2

Infrared LED

EOLD-765-524

Rev. 03, 2017

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

	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

All dimensions in mm

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	50	mA
Peak forward current	$t_p \leq 1 \text{ ms}, t_p / T = 1/30$	I_{FM}	100	mA
Power dissipation		P_D	90	mW
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +85	$^{\circ}\text{C}$
Junction temperature		T_J	100	$^{\circ}\text{C}$
Lead soldering temperature	$t < 5 \text{ s}, 3 \text{ mm from case}$	T_{slg}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$		1.7	2	V
Forward voltage	V_F	$I_F = 50 \text{ mA}$		1.8		V
Forward voltage*	V_F	$I_F = 100 \text{ mA}$		1.85	2.1	V
Reverse voltage	V_R	$I_R = 10 \mu\text{A}$	5			V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$	4	6		mW
Radiant power*	Φ_e	$I_F = 50 \text{ mA}$		14		mW
Radiant intensity	I_e	$I_F = 20 \text{ mA}$	24	30		mW/sr
Radiant intensity*	I_e	$I_F = 50 \text{ mA}$		70		mW/sr
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	760	765	770	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		30		nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		20		deg.
Switching time	t_r, t_f	$I_F = 20 \text{ mA}$		35		ns

*In pulse mode, for reference



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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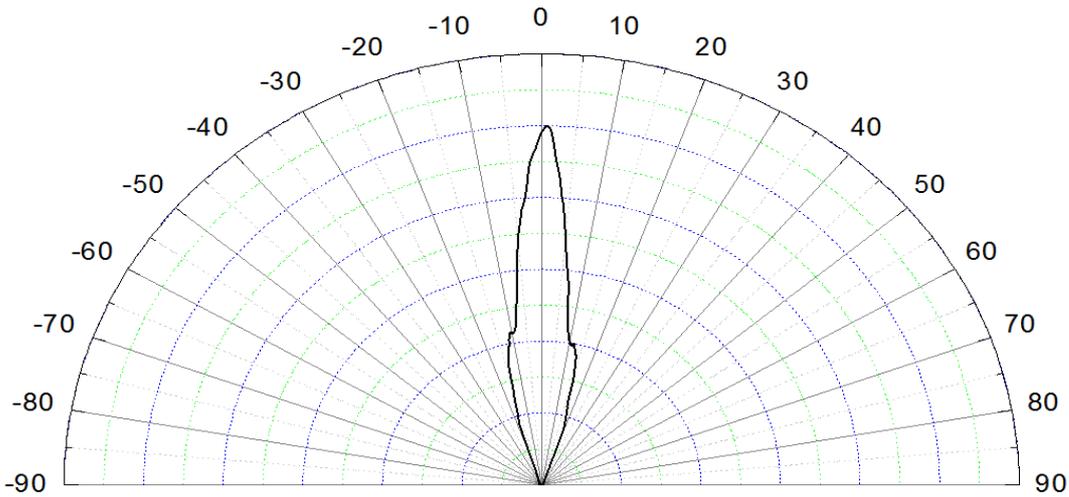
Data sheet

Page 2 of 2

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Typical radiation pattern

Art. No. 430 051



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