

EPIGAP Optronik GmbH

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Data sheet

Infrared LED

EOLD-1300-015

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Rev. 02, 2017

Radiation	Type	Case
Infrared	InGaAs/InP, MQW	TO-46 with glass lens cap

Description:	
High-power, high speed, narrow beam angle, high reliability	
Application:	
Optical switches, optical communication, safety equipment, automation	

① Cathode ② Anode Dimensions (Unit:mm)	
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Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	100	mA
Peak forward current (pulse)	t ≤ 50 μs, T = 100 μs	I _{FM}	200	mA
Reverse voltage	I _R = 10 μA	I _{FM}	5	V
Power dissipation		P _D	115	mW
Operating temperature range		T _{amb}	-20 to +85	°C
Storage temperature range		T _{stg}	-30 to +100	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T _{slg}	260	°C
Junction temperature		T _J	100	°C



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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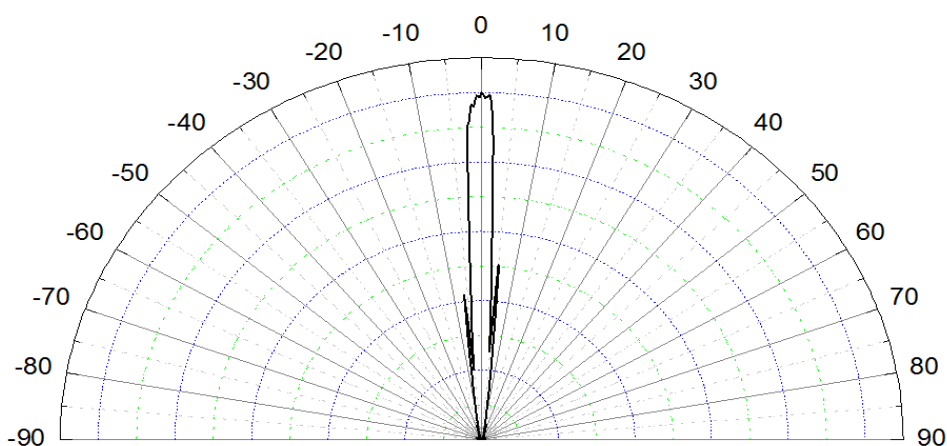
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Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20\text{ mA}$		0.85	1.05	V
Forward voltage	V_F	$I_F = 100\text{ mA}$		0.95	1.15	V
Radiant power	Φ_e	$I_F = 20\text{ mA}$	1.2	1.6		mW
Radiant power	Φ_e	$I_F = 100\text{ mA}$		8		mW
Peak wavelength	λ_p	$I_F = 20\text{ mA}$	1270	1300	1330	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20\text{ mA}$		85		nm
Viewing angle	φ	$I_F = 20\text{ mA}$		6		deg.
Switching times	t_r, t_f	$I_F = 20\text{ mA}$		25; 40		ns



Typical radiation pattern

Art. No. 430 053



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