

EPIGAP Optronik GmbH

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Data sheet

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Infrared LED

EOLD-1720-015

Rev. 02, 2017

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

	Description:
<p style="text-align: center;">① Cathode ② Anode Dimensions (Unit:mm)</p>	Applications:
	<p>High-power, high speed, narrow beam angle, high reliability</p> <p>Optical switches, optical communication, safety equipment, automation</p>

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Peak forward current (pulse)	$t \leq 50 \mu\text{s}$, $T = 100 \mu\text{s}$	I_{FM}	200	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	I_{RM}	5	V
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-20 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +100	$^{\circ}\text{C}$
Lead soldering temperature	$t < 5 \text{ s}$, 3 mm from case	T_{slg}	260	$^{\circ}\text{C}$
Junction temperature		T_J	100	$^{\circ}\text{C}$



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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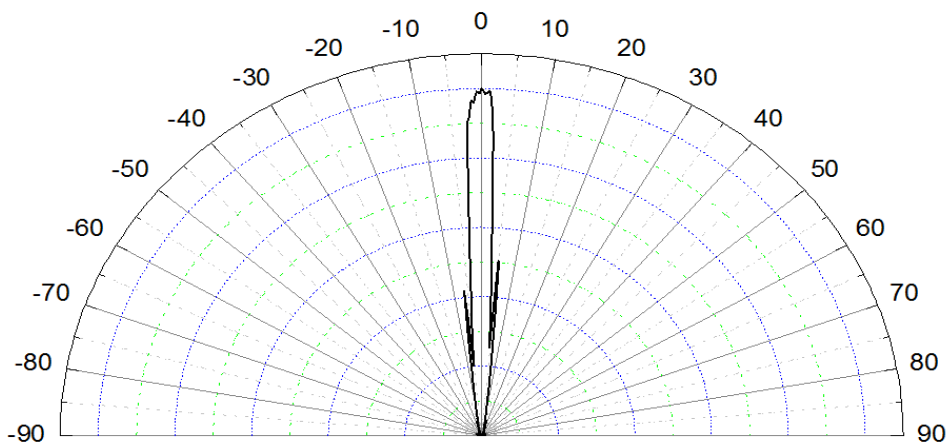
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Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$I_F=20\text{ mA}$	V_F		0.7	0.95	V
Forward voltage	$I_F=100\text{ mA}$	V_F		0.9		V
Reverse voltage	$I_R=10\text{ }\mu\text{A}$	V_R	5			V
Radiant power	$I_F=20\text{ mA}$	Φ_e		1		mW
Radiant power	$I_F=100\text{ mA}$	Φ_e		4		mW
Peak wavelength	$I_F=20\text{ mA}$	λ_p		1720		nm
FWHM	$I_F=20\text{ mA}$	$\Delta\lambda_{0.5}$		130		nm
Viewing angle	$I_F=20\text{ mA}$	φ		6		deg.
Switching times	$I_F=20\text{ mA}$	t_r, t_f		15		ns



Typical radiation pattern

Art. No. 430 052



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