

EPIGAP Optronik GmbH

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Data sheet

Infrared LED

EOLD-935-525

Radiation	Type	Case
Infrared	DH	5 mm plastic lens

Description:	
	<p>High-power, high-speed infrared LED in standard 5 mm package, housing without standoff leads</p> <p>for optical communications, safety equipment and automation</p>

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	150	mA
Peak forward current	$t_p \leq 50 \mu\text{s}$, $t_p / T = 1/2$	I_{FM}	250	mA
Power dissipation		P_D	210	mW
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40 to +85	$^{\circ}\text{C}$
Lead soldering temperature	$t < 5 \text{ s}$, 3 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	$I_F = 20 \text{ mA}$		1.2	1.4	V
Forward voltage	V_F	$I_F = 100 \text{ mA}$		1.3		V
Reverse voltage	V_R	$I_R = 100 \mu\text{A}$	5			V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$	4.5	6.5		mW
Radiant power	Φ_e	$I_F = 100 \text{ mA}$		32		mW
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	925	935	950	nm
FWHM	$\Delta\lambda_{0,5}$	$I_F = 20 \text{ mA}$		45		nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		20		deg.
Switching time	t_r, t_f	$I_F = 20 \text{ mA}$		500		ns



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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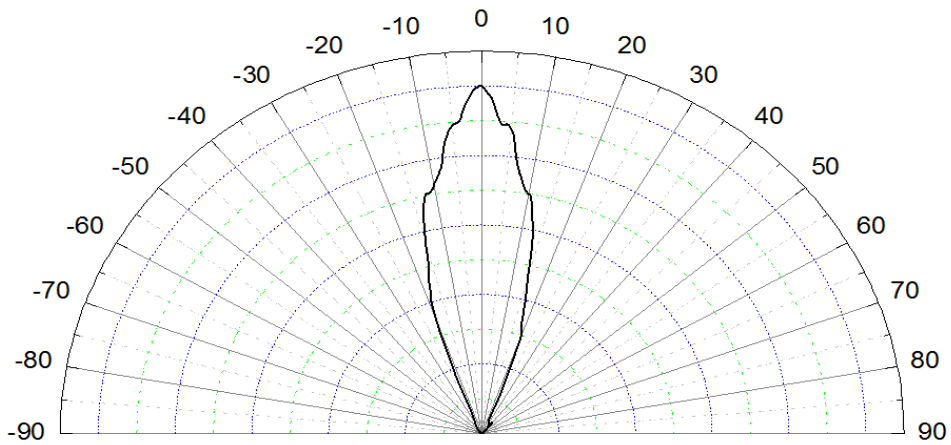
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Rev. 03, 2017



Typical radiation pattern

Art. No. 132 017



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