

EPIGAP Optronik GmbH

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Data sheet

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Deep red LED

EOLD-670-524

Rev. 03, 2017

Radiation	Type	Case
deep red	AlGaAs	5 mm plastic lens

Description:	
	<p>High-power, high-speed deep red LED in standard 5 mm package, with lens for optical beam forming, housing without standoff leads</p> <p>All dimensions in mm</p>

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation		P_D	150	mW
Peak forward current	$t_p \leq 50 \mu\text{s}$, $t_p / T = 1/2$	I_{FP}	100	mA
Continuous forward current		I_F	50	mA
Reverse voltage		V_R	5	V
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +85	$^{\circ}\text{C}$
Lead soldering temperature	$t=3 \text{ s}$, 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	$I_F = 20 \text{ mA}$		1.8	2.2	V
Reverse voltage	V_R	$I_R = 10 \mu\text{A}$	5			V
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	660	670	680	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		25		nm
Viewing angle	φ	$I_F = 20 \text{ mA}$		20		deg.
Radiant power	Φ_e	$I_F = 20 \text{ mA}$		6		mW
Radiant intensity	I_e	$I_F = 20 \text{ mA}$		19		mW/sr



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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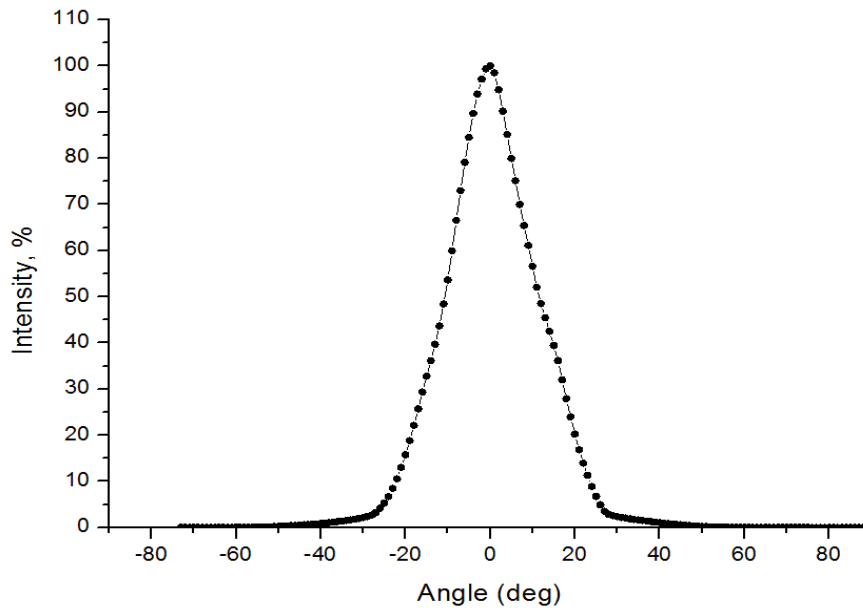
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Typical radiation pattern

Art. No. 430 038



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