

# EPIGAP Optronik GmbH

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## Data sheet

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### Deep red LED

### EOLD-660-343

Rev. 03, 2017

Radiation	Type	Case
Deep red	AlGaAs	3 mm plastic lens

Description:
<p style="text-align: center;">ANODE 2.54</p>
<ul style="list-style-type: none"> <li>- Super bright LED</li> <li>- Lens color - water clear</li> <li>- High luminous intensity</li> <li>- ROHS conform</li> </ul> <p style="text-align: center;">All dimensions in mm</p> <div style="display: flex; justify-content: center; gap: 20px;"> </div>

### Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation		$P_D$	80	mW
Peak forward current	Duty cycle 1/10 @ 1 kHz	$I_{FP}$	50	mA
Continuous forward current		$I_F$	30	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	$V_R$	5	V
Operating temperature range		$T_{amb}$	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-40 to +85	$^{\circ}\text{C}$
Lead soldering temperature	$t = 3 \text{ s}$ , 1.6 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	$V_F$	$I_F = 20 \text{ mA}$		1.9	2.4	V
Reverse current	$I_R$	$V_R = 5 \text{ V}$			10	$\mu\text{A}$
Peak wavelength	$\lambda_p$	$I_F = 20 \text{ mA}$		660		nm
Dominant wavelength	$\lambda_D$	$I_F = 20 \text{ mA}$		645		nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		25		nm
Viewing angle	$\phi$	$I_F = 20 \text{ mA}$		20		deg.
Luminous intensity	$I_V$	$I_F = 20 \text{ mA}$	860	1300		mcd

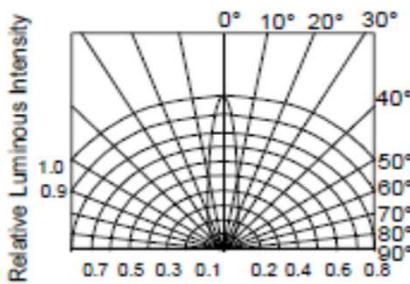
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

**Data sheet**

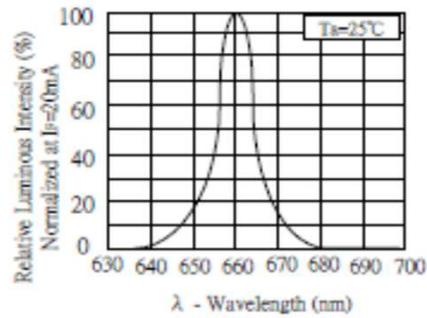
**Deep red LED**

**EOLD-660-343**

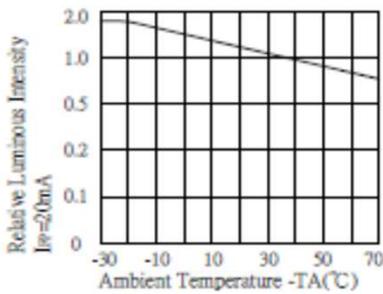
**TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES**



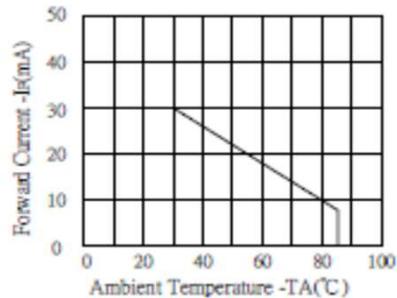
**RADIATION DIAGRAM**



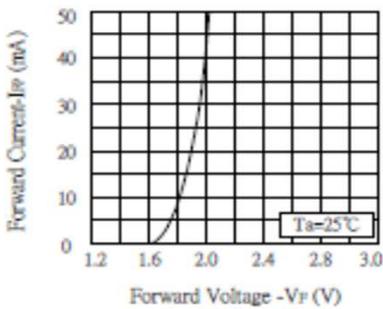
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



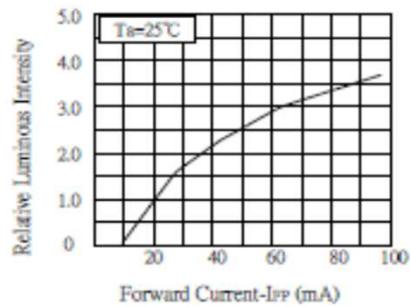
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**

Art. No. 131 012



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