

# EPIGAP Optronik GmbH

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## Data sheet

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### Red LED

### EOLD-660-592

Rev. 03, 2017

Radiation	Type	Case
Deep red	AlGaAs	5 mm flat plastic

Description:	
	<ul style="list-style-type: none"> <li>- High output power</li> <li>- Wide beam angle</li> <li>- For fiber optical communications, optical sensors, bar code readers and edge sensing (coin dispenser)</li> </ul>

1 - Anode, 2 -Cathode

### Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Continuous forward current		$I_F$	50	mA
Peak forward current	$t = 10 \mu\text{s}$ , $T = 10 \text{ms}$	$I_{FP}$	0.5	A
Reverse voltage		$V_R$	5	V
Power dissipation		$P_D$	110	mW
Operating temperature range		$T_{amb}$	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-30 to +85	$^{\circ}\text{C}$
Junction temperature		$T_J$	100	$^{\circ}\text{C}$
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
Radiant power	$\Phi_e$	$I_F = 20 \text{mA}$		5		mW
Radiant intensity	$I_e$	$I_F = 20 \text{mA}$		4.7		mW/sr
Luminous intensity	$I_v$	$I_F = 20 \text{mA}$		130		mcd
Forward voltage	$V_F$	$I_F = 20 \text{mA}$		1.8	2.2	V
Reverse current	$I_R$	$V_R = 5 \text{V}$			100	$\mu\text{A}$
Peak wavelength	$\lambda_p$	$I_F = 20 \text{mA}$		660		nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{mA}$		25		nm
Viewing angle	$\varphi$	$I_F = 20 \text{mA}$		110 ( $\pm 55$ )		deg.
Rise and fall time	$t_r, t_f$	$I_{FP} = 20 \text{mA}$		30		ns
Junction capacitance	$C_j$	1 MHz, $V = 0 \text{V}$		20		pF



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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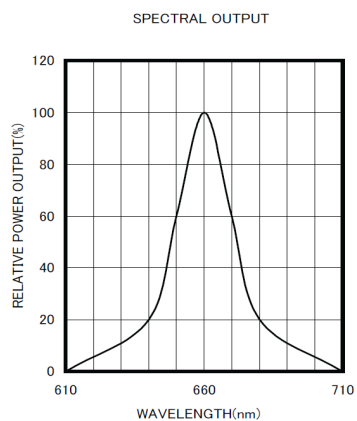
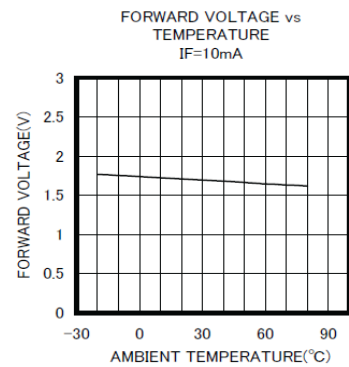
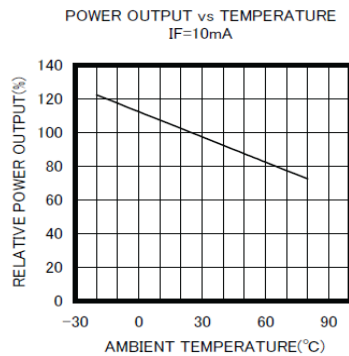
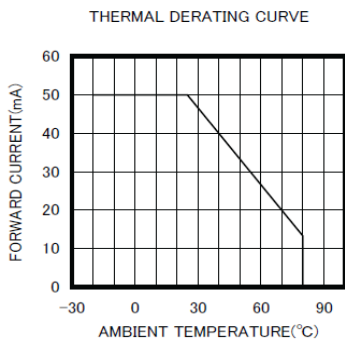
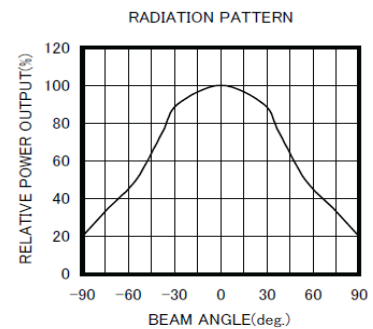
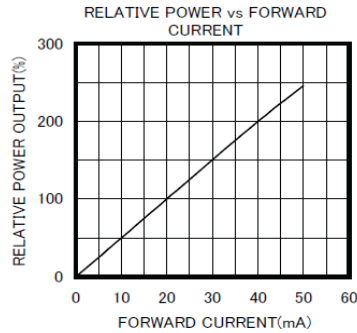
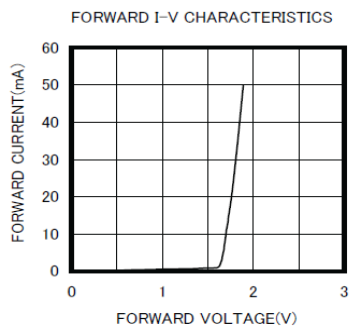
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