

# EPIGAP Optronik GmbH

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## Data Sheet

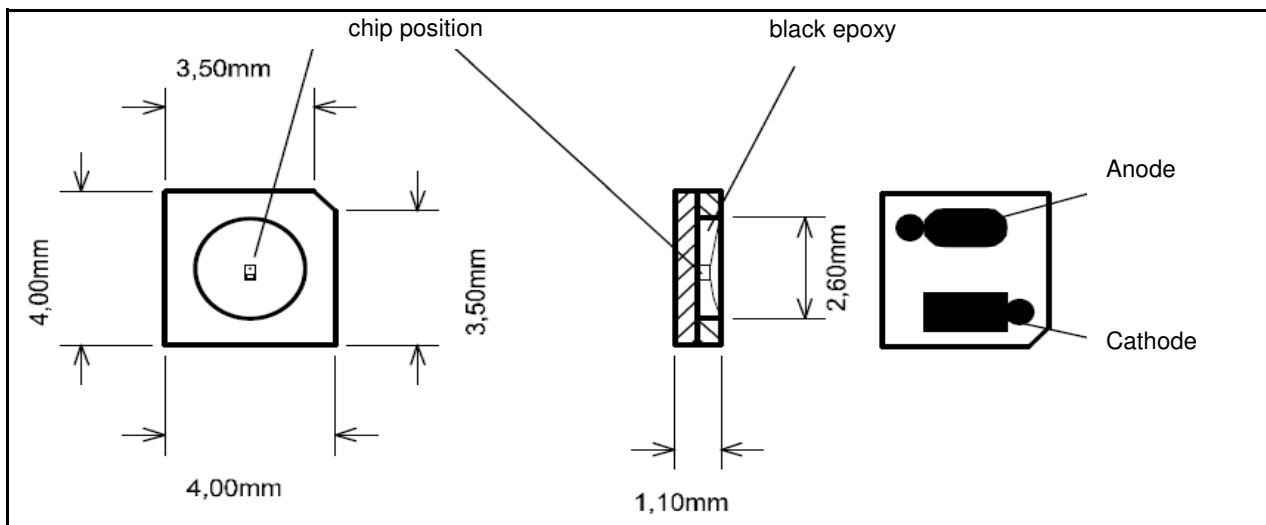
Page 1 of 2

### SMD-LED red PS

### EOLS-625-192-50

Rev. 03, 2017

Radiation	Type	Case
Red	Point-source LED Ø50 µm, AlInGaP/GaAs	SMD 4040 (1515)



#### Description

The point source LED is the ideal point-light source for various applications wherever a large light emitting area is not wanted. Customized solutions with other chips are available on request for higher quantities.

#### Features and benefits

- Homogenous light point
- Wide viewing angle
- For references on all mechanical equipment
- Light emitting area only 0.05 mm diameter

#### Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current*		$I_F$	10	mA
Operating temperature range		$T_{amb}$	-25 to +80	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-25 to +120	$^{\circ}\text{C}$
Junction temperature*		$T_{slg}$	120	$^{\circ}\text{C}$
Soldering temperature	<10 s	$T_{sold}$	260	$^{\circ}\text{C}$

\*Adequate heat sink is required. Derating must be observed to maintain junction temperature below maximum.



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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Page 2 of 2

**SMD-LED red PS**

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#### Optical and Electrical Characteristics

T<sub>amb</sub>= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 5 mA		2.15	2.55	V
Reverse voltage	V <sub>R</sub>	I <sub>F</sub> = 10 µA	5			V
Reverse current	I <sub>R</sub>	V <sub>F</sub> = 5 V			100	µA
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 0.5 mA		250		µcd
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 5 mA	4	6		mcd
Dominant wavelength	λ <sub>D</sub>	I <sub>F</sub> = 5 mA	618	625	630	nm
Viewing angle	Θ	I <sub>F</sub> = 5 mA		120		deg

Art. No. 133 140



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