

# EPIGAP Optronik GmbH

Koepenicker Str. 325b  
 D-12555 Berlin  
 Fon: +49 (0)30 657637 60  
 Fax: +49 (0)30 657637 70  
 sales@epigap-optronic.de



## Data Sheet

page 1 of 3

### SMD-LED

### EOLS-1550-199

Rev. 03, 2017

Radiation	Type	Case
infrared	InGaAsP	SMD 3216 (1206)

<p>Unit: mm Tolerance: ±0.1</p>	<p style="text-align: center;"><b>Description:</b></p> <ul style="list-style-type: none"> <li>- Size 1206: 3.2 (L) x 1.6 (W) x 1.2 (H) mm</li> <li>- Circuit substrate: glass laminated epoxy</li> <li>- Devices are RoHS conform</li> <li>- Lead free solderable, soldering pads: gold plated</li> <li>- Marking at cathode</li> <li>- High radiation intensity</li> </ul>
-------------------------------------	---

### Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		$I_F$	50	mA
Peak forward current	$t \leq 100 \mu\text{s}, T = 1 \text{ ms}$	$I_{FM}$	100	mA
Reverse voltage	$I_R = 100 \mu\text{A}$	$I_{RM}$	5	V
Operating temperature range		$T_{amb}$	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-55 to +85	$^{\circ}\text{C}$
Thermal resistance		$R_{thJA}$	450	K/W

### Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 50 \text{ mA}$		1.0	1.3	V
Radiant power	$\Phi_e$	$I_F = 50 \text{ mA}$		1.7		mW
Peak wavelength	$\lambda_p$	$I_F = 50 \text{ mA}$	1500	1550	1600	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 50 \text{ mA}$		130		nm
Viewing angle	$\varphi$	$I_F = 50 \text{ mA}$		120		deg.

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.

# EPIGAP Optronik GmbH

Koepenicker Str. 325b  
D-12555 Berlin  
Fon: +49 (0)30 657637 60  
Fax: +49 (0)30 657637 70  
sales@epigap-optronic.de



## Data Sheet

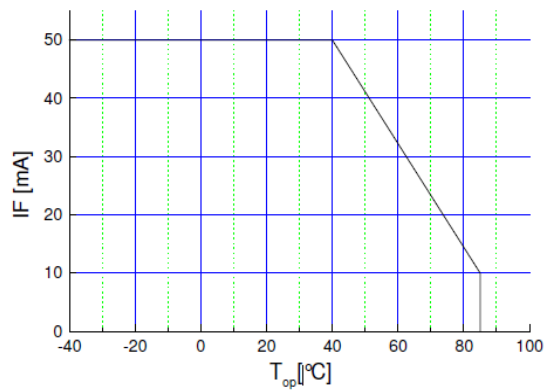
page 2 of 3

### SMD-LED

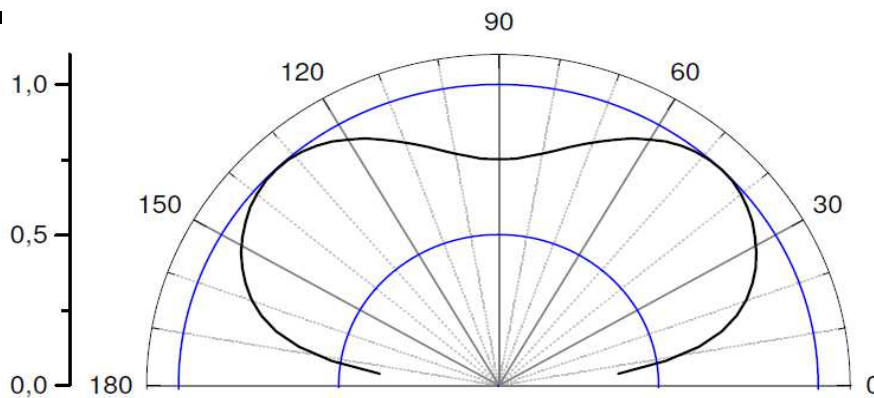
### EOLS-1550-199

Rev. 03, 2017

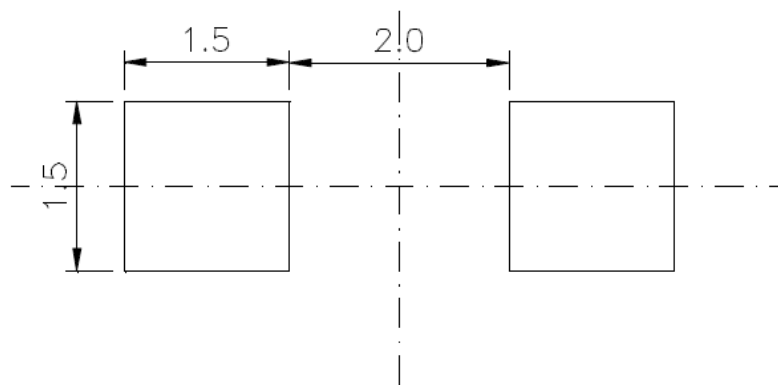
**Maximal forward current (DC) characteristic**



**Radiation pattern**



**Recommended Soldering Pattern**



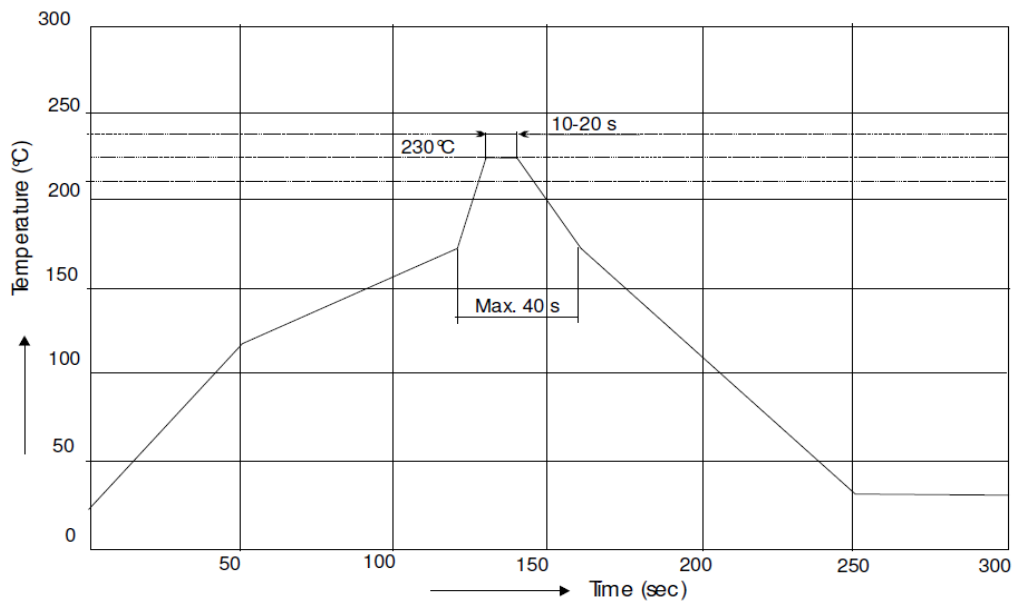
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

**Data Sheet**

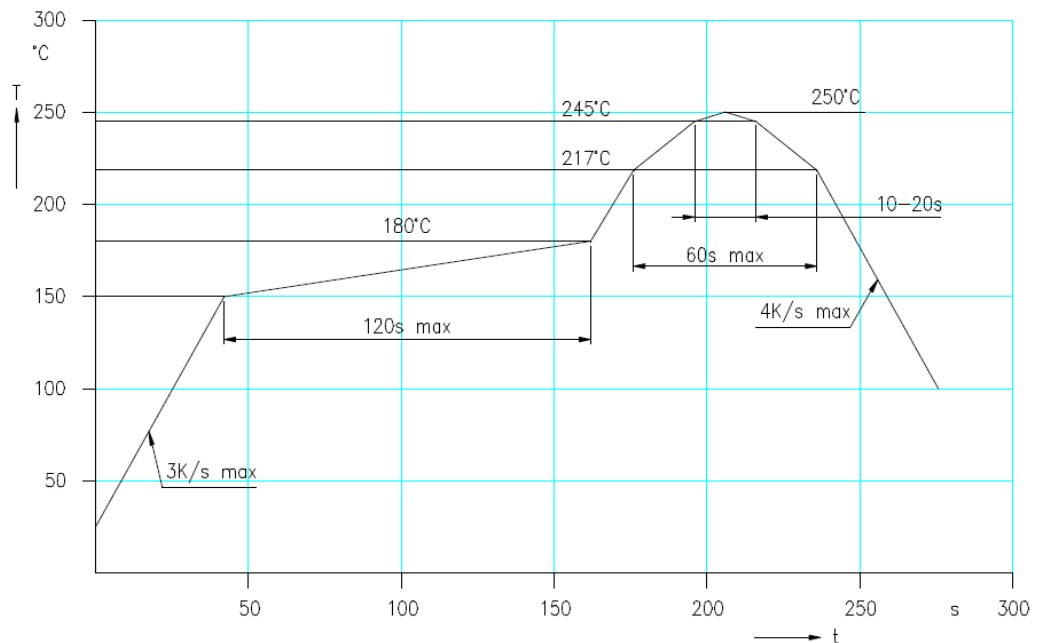
**SMD-LED**

**EOLS-1550-199**

**IR reflow soldering profile**



**IR reflow soldering profile for lead free soldering**



**Manual soldering:**  
 max power of iron 25 W / 3 s / 300°C

Art. Nr. 133 131



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.