

# EPIGAP Optronic 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 side view

### EOLS-470-590

Rev. 02, 2017

Radiation	Type	Case
blue	InGaN	SMD 3018 (1008), side view

Unit: mm  
Tolerance: ±0,1

Soldering Pad for Stabilization (without contact)

Marking

Back side

**Description:**

- Size 1008: 3.0 (L) x 1.8 (W) x 1.0 (H) mm
- Circuit substrate: glass laminated epoxy
- Devices are RoHS conform
- Lead free solderable, soldering pads: gold plated
- Marking at cathode
- ESD classification (MIL-STD-883E) - class 1

### Maximum Ratings

Parameter	Test conditions	Symbol	Value	Unit
Forward current		$I_F$	20	mA
Peak forward current	$t_p \leq 100 \mu s, \tau=1:10$	$I_{FM}$	100	mA
Reverse voltage		$V_R$	5	V
Reverse current		$I_R$	100	$\mu A$
Operating temperature range		$T_{amb}$	-40 to +85	$^{\circ}C$
Storage temperature range		$T_{stg}$	-40 to +85	$^{\circ}C$
Thermal resistance		$R_{thJA}$	500	K/W

### Optical and Electrical Characteristics

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	$V_F$	$I_F= 20 \text{ mA}$		3.3	3.5	V
Luminous intensity	$I_v$	$I_F= 20 \text{ mA}$	180	240		mcd
Dominant wavelength	$\lambda_d$	$I_F= 20 \text{ mA}$		470		nm



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 Optronic GmbH

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



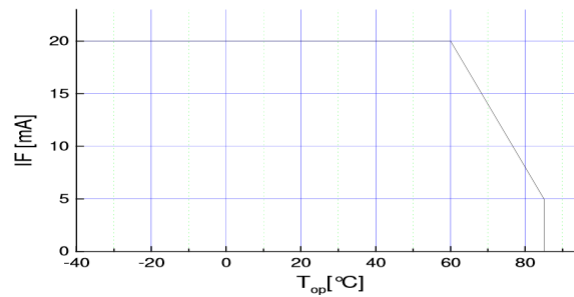
## Data Sheet

SMD-LED side view

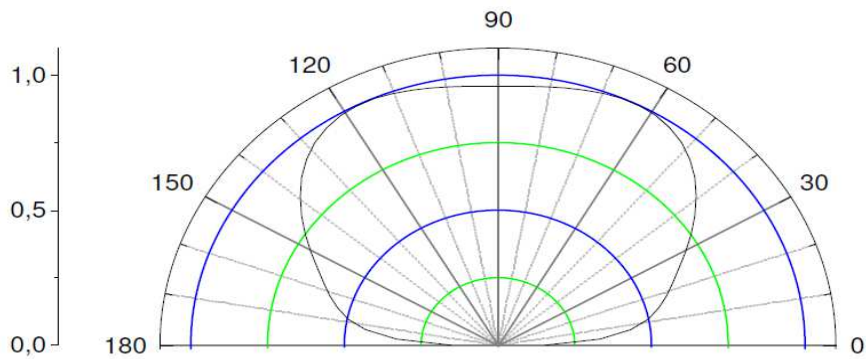
EOLS-470-590

page 2 of 3  
Rev. 02, 2017

### Maximal forward current (DC) characteristic



### View angle



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



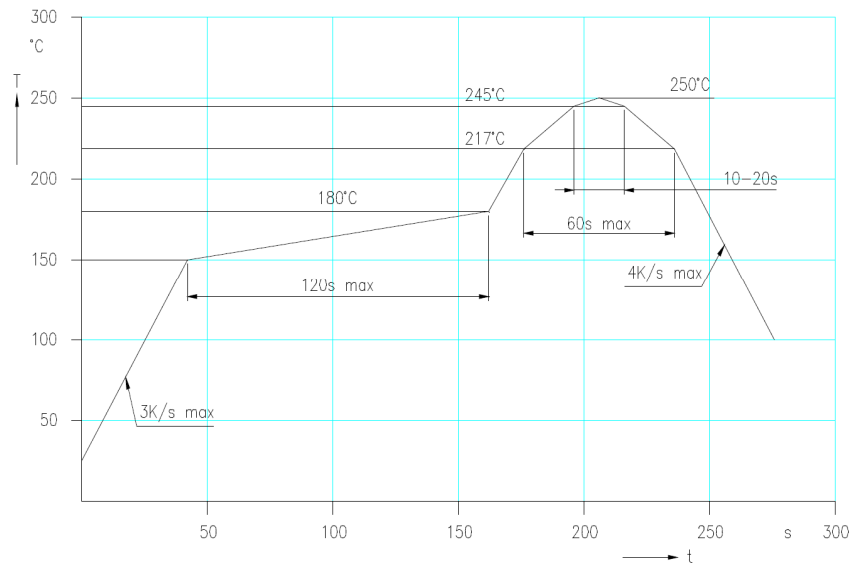
## Data Sheet

SMD-LED side view

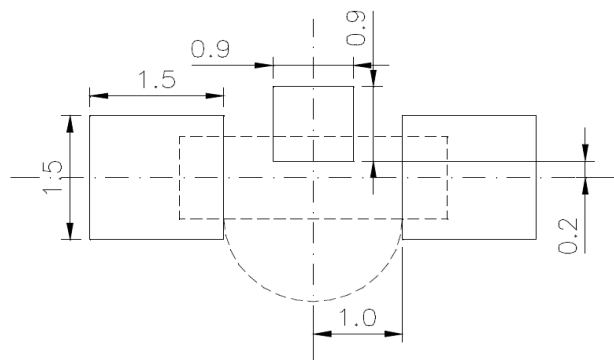
EOLS-470-590

page 3 of 3  
Rev. 02, 2017

### IR reflow soldering profile for lead free soldering



### Recommended Soldering Patterns



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

Art. No. 133 038



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.