

EPIGAP Optronik GmbH

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customized optoelectronics



Product Data Sheet

Preliminary

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SMD-LED Lamp Infra Red

EOLS-740-496

Rev. 01 aus 2011

Radiation	Type	Case
Infra Red		SMD

Description:

- Size 3.8(W) x 3.8(L) x 0.9(H)
- Circuit substrate: AlN Ceramics
- Devices are RoHS conform
- Lead free solderable, soldering pads: silver plated
- taped in 16 mm blister tape, cathode to transporting perforation
- all devices are sorted into luminous intensity classes
- taping: face up (T)
- high radiation intensity types

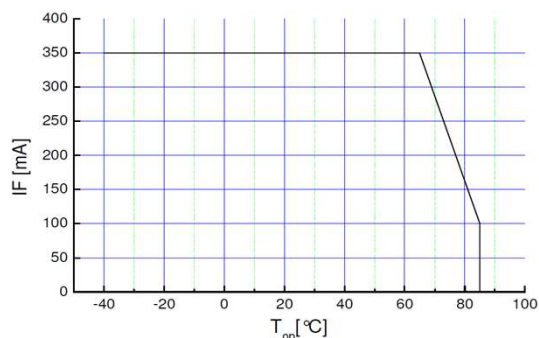
Maximum Ratings

$I_{F, max}$ [mA]	$I_{F,P}$ [mA] tp≤ 100μs τ=1:10	V_R [V]	IR, max [μA]	Thermal resistance R_{thJA} [K / W]	T_{op} [°C]	T_{St} [°C]
350	500	5	100	10	-40 to 85	-40 to 85

Optical and Electrical Characteristics

Marking at	Measurement I_F [mA]	Switching time (rise & fall)		V_F [V]		λ_p	I_e [mW/sr]	
		typ [ns]	max [ns]	typ	max	[nm]	min	typ
cathode	350	40	160	1.9	2.2	740 ±10	10	15

Maximal forward current (DC) characteristic



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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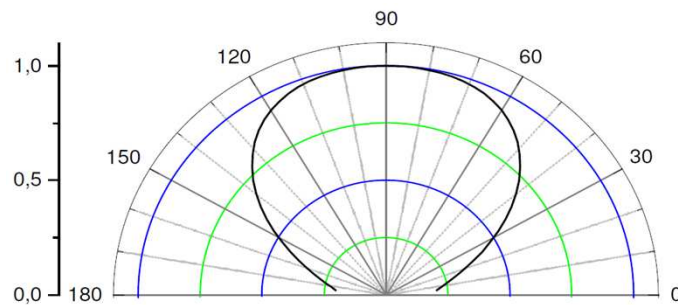
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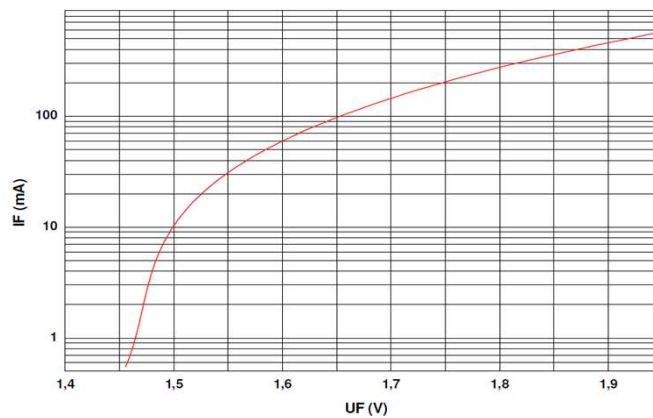
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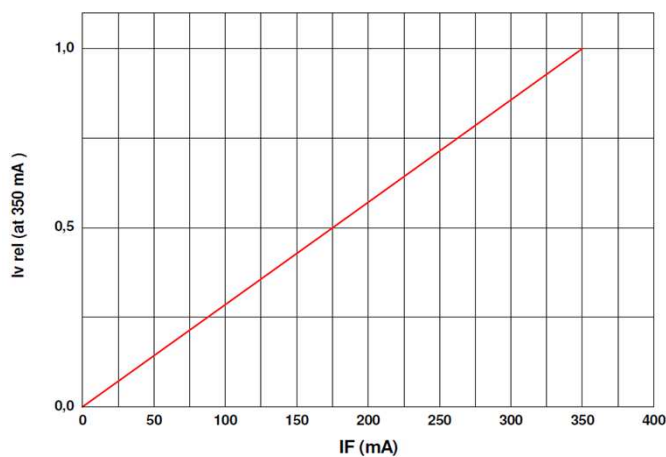
View angle



$U_F - I_F$ characteristic



$I_F - I_{e, rel}$ characteristic



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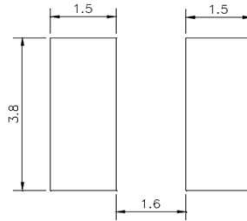
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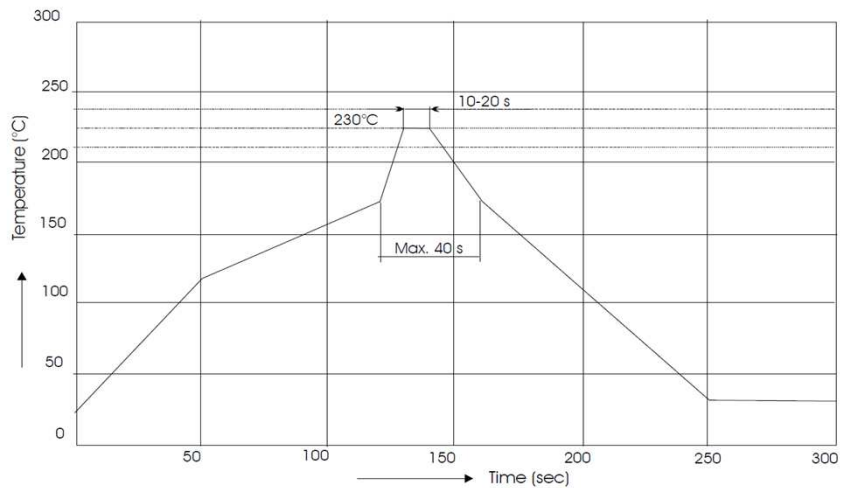
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Recommended Soldering Patterns

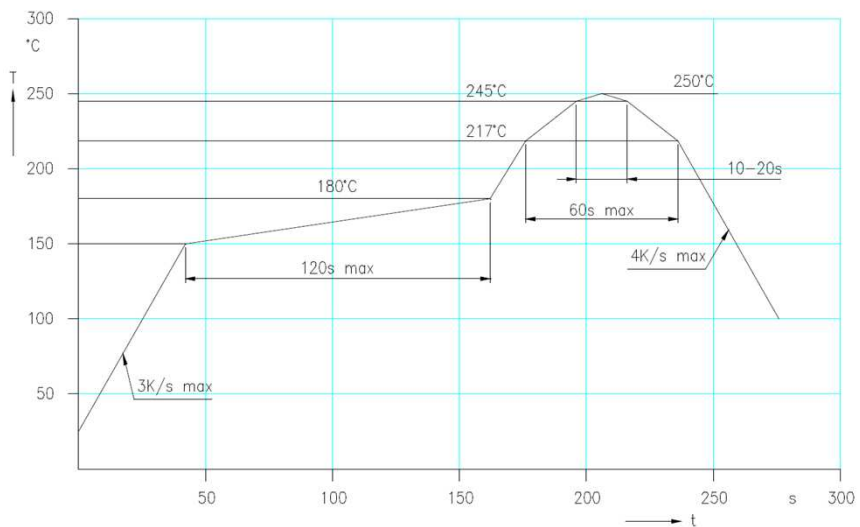


recommended max. thermal resistance
device-ambient: 20 K/W

IR reflow soldering profile



IR reflow soldering profile for lead free soldering



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

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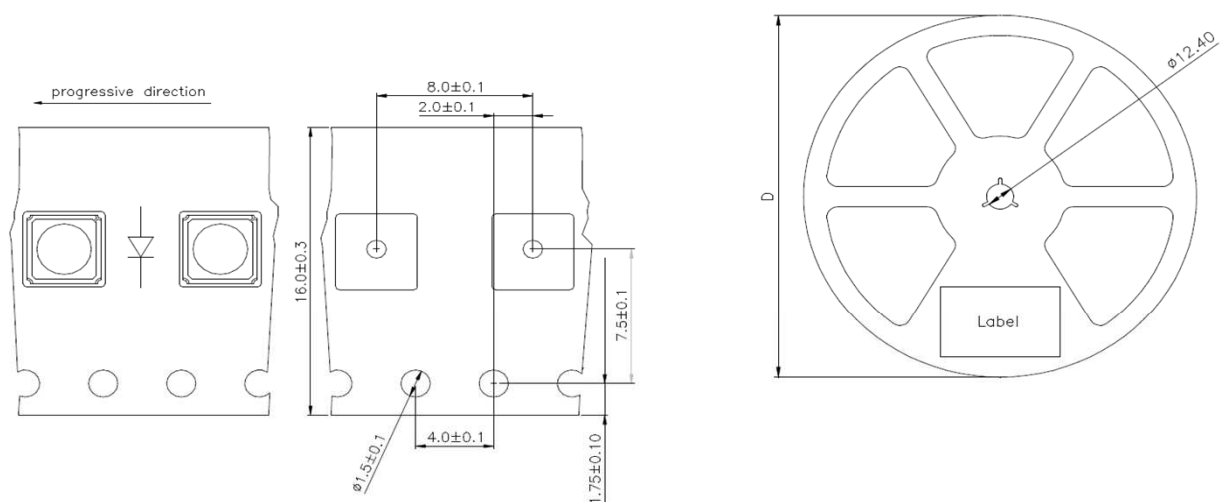
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Measured according to CIE 127. All SMD-LEDs are 100% measured and selected on full automated equipment with an accuracy of $\pm 11\%$.

Tape and Reel packing



D	Parts/reel
180 mm	500
330 mm	2000

Packing: The reel is sealed in special plastic bag with integrate ESD protection (MIL - STD 81705) including a silica dry-pack

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