

EPIGAP Optronik GmbH

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Data Sheet

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Deep red SMD-LED

EOLS-670-199

Rev. 03, 2017

| Radiation | Type | Case |
|---------------------|--------|-----------------|
| Deep red - Infrared | AlGaAs | SMD 3216 (1206) |

| | |
|-------------------------------------|---|
| <p>Unit: mm Tolerance: ±0,1</p> | <p>Description:</p> <ul style="list-style-type: none"> - Size 1206: 3.2 (L) x 1.6 (W) x 1.2 (H) mm - Circuit substrate: glass laminated epoxy - Devices are RoHS conform - Lead free solderable, soldering pads: gold plated - Marking at anode |
|-------------------------------------|---|

Maximum Ratings

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

| Parameter | Test conditions | Symbol | Value | Unit |
|-----------------------------|---|------------|------------|--------------------|
| Forward current | | I_F | 30 | mA |
| Peak forward current | $t_p \leq 100 \mu\text{s}, \tau = 1:10$ | I_{FM} | 150 | mA |
| Reverse voltage | | V_R | 5 | V |
| Reverse current | | I_R | 100 | μA |
| 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 | $I_F = 30 \text{ mA}$ | | 1.9 | 2.2 | V |
| Rise & fall time | t_r, t_f | $I_F = 30 \text{ mA}$ | | 40 | 160 | ns |
| Radiant intensity | I_e | $I_F = 30 \text{ mA}$ | 0.5 | 1.0 | | mW/sr |
| Radiant power | Φ_e | $I_F = 30 \text{ mA}$ | | 1.5 | | mW |
| Peak wavelength | λ_d | $I_F = 30 \text{ mA}$ | 662 | 670 | 678 | 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.

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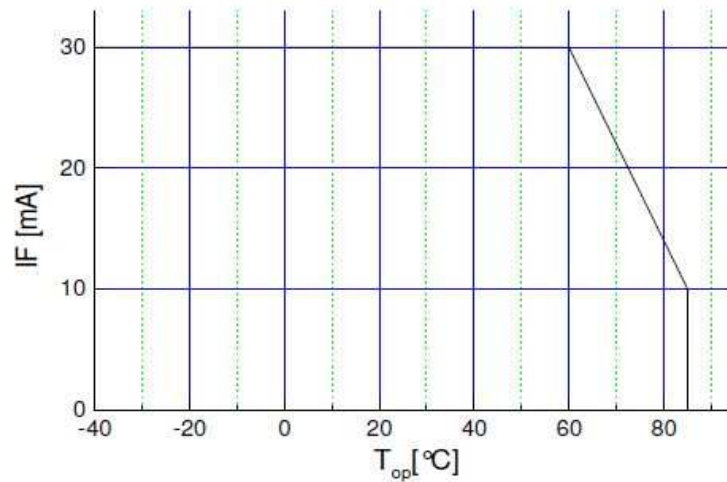
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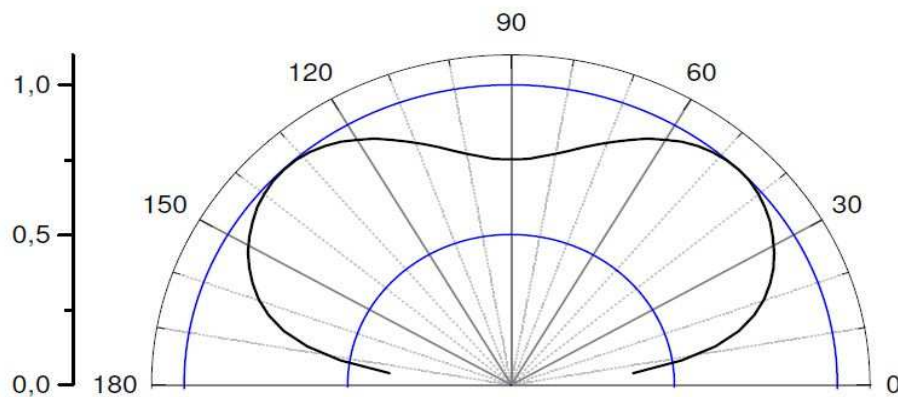
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Maximal forward current (DC) characteristic



View angle



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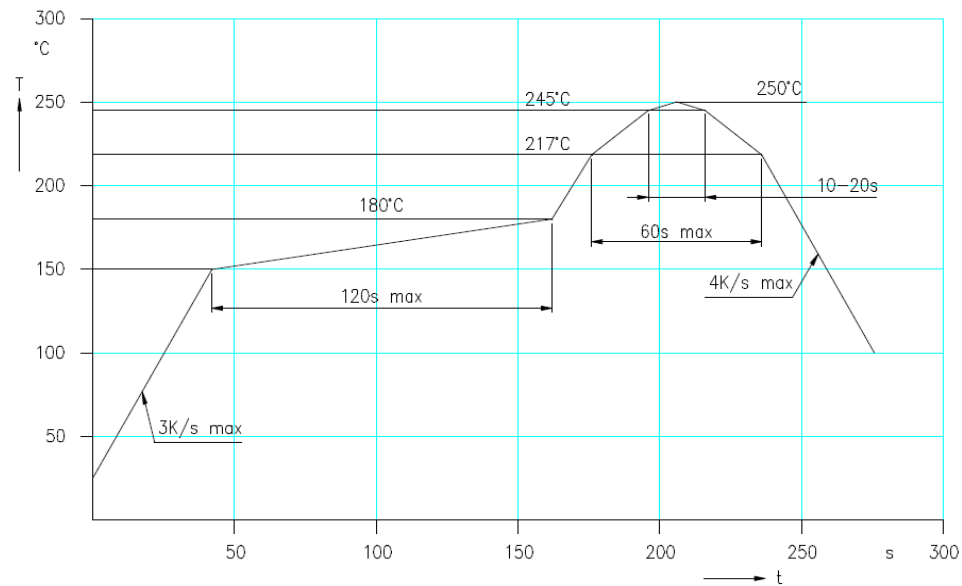
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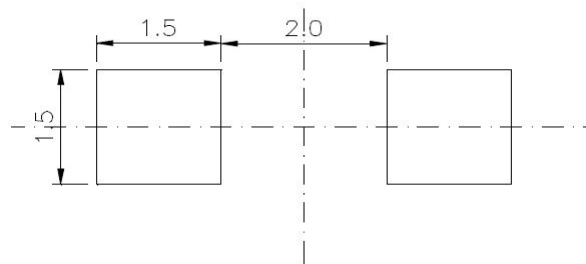
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IR reflow soldering profile for lead free soldering



Recommended Soldering Pattern



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

Art. No. 133 142



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