**EPIGAP Optronic GmbH**
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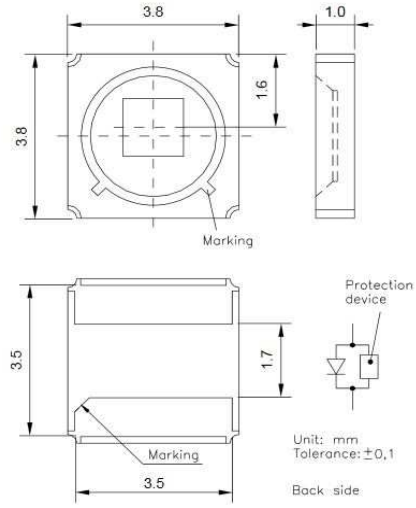
## Data Sheet



## Yellow-Orange SMD-LED EOLS-600-496

Rev. 03, 2017

| Radiation | Type | Case |
|---|---|---|
| yellow-orange | AlInGaP | SMD 3838 (1515) |




**Description:**

- Size 3.8 (W) x 3.8 (L) x 1.0 (H) mm
- Circuit substrate: AIN ceramics
- Devices are RoHS conform
- Lead free solderable, soldering pads: silver plated
- Marking at cathode

### Maximum Ratings

$T_{amb}$= 25°C, unless otherwise specified

| Parameter | Test conditions | Symbol | Value | Unit |
|---|---|---|---|---|
| Forward current | | $I_F$ | 350 | mA |
| Peak forward current | $t_p \leq 100$ µs, τ =1:10 | $I_{FM}$ | 800 | mA |
| Reverse voltage | | $V_R$ | 1 | V |
| Reverse current | | $I_R$ | 20 | µA |
| Operating temperature range | | $T_{amb}$ | -40 to +85 | °C |
| Storage temperature range | | $T_{stg}$ | -40 to +85 | °C |
| Thermal resistance | | $R_{thJA}$ | 10 | K/W |

### Optical and Electrical Characteristics

$T_{amb}$= 25°C, unless otherwise specified

| Parameter | Symbol | Conditions | Min | typ | max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | $V_F$ | $I_F$= 350 mA | | 2.2 | 3.0 | V |
| Luminous intensity | $I_v$ | $I_F$= 350 mA | 7000 | | 12000 | mcd |
| Dominant wavelength | $\lambda_d$ | $I_F$= 350 mA | 590 | 600 | 610 | nm |

RoHS COMPLIANT Pb-Free

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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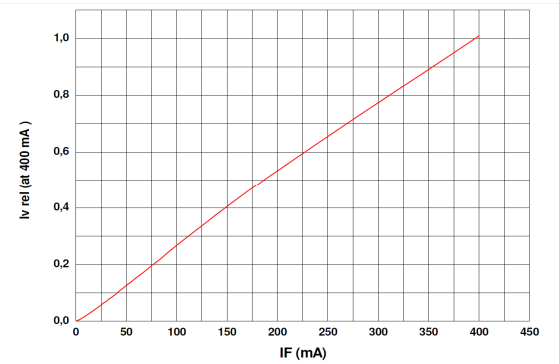
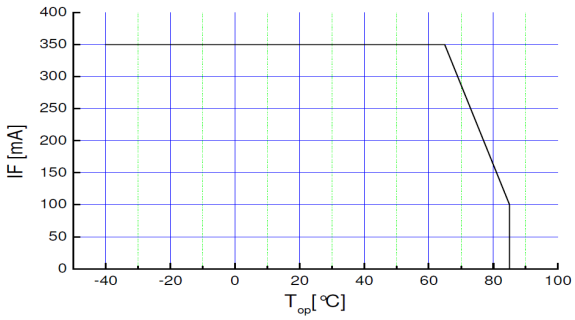
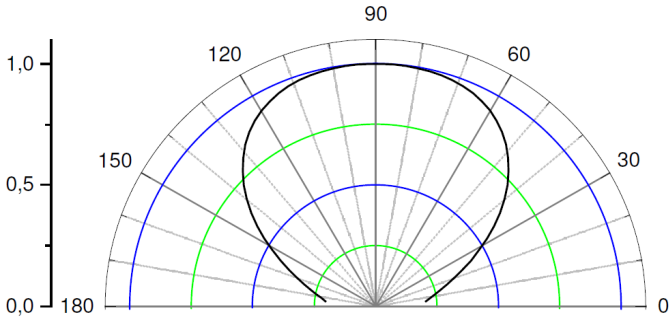



Intensity vs. Forward Current




Forward Current vs. Operating Temperature




View Angle

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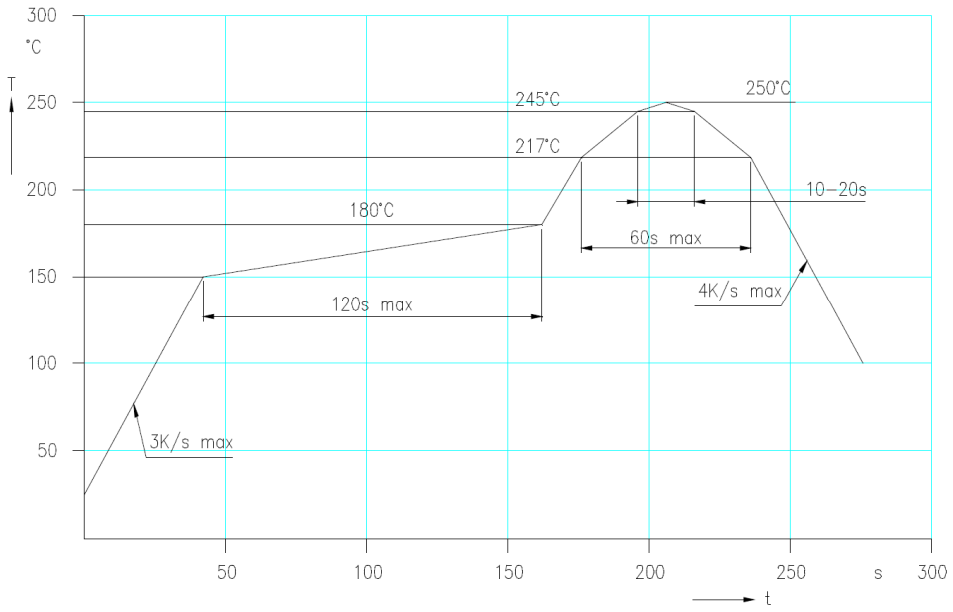
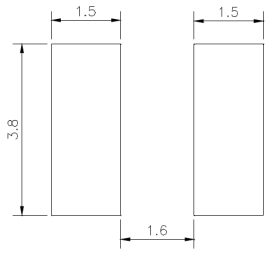



IR reflow soldering profile for lead free soldering




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

Recommended Soldering Pattern

Art. No. 133 207

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