



**Product Data Sheet**

**LED Lamp ultra violet**

**EOLD-400-535**

Rev. 01 aus 2011

| Radiation    | Type      | Case             |
|--------------|-----------|------------------|
| ultra violet | InGaN/SiC | 5mm plastic lens |

| Description:  |  |
|---|--|
| <p>Notes:</p> <ol style="list-style-type: none"> <li>All dimensions are in millimeter</li> <li>Lead spacing is measured where the lead emerge from the package</li> </ol> | <p>Super bright LED lamp, round type, 5mm diameter, lens color: Water Clear with flange, housing without standoff leads, complaint with RoHS</p> |

**Maximum Ratings**

T<sub>amb</sub>= 25°C, unless otherwise specified

| Parameter             | Test Conditions         | Symbol           | Value       | Unit |
|-----------------------|-------------------------|------------------|-------------|------|
| Forward Current       |                         | I <sub>F</sub>   | 30          | mA   |
| Peak forward current  | (1/10 Duty Cycle @1KHz) | I <sub>FM</sub>  | 100         | mA   |
| Power dissipation     |                         | P <sub>D</sub>   | 120         | mW   |
| Operating temp. range |                         | T <sub>amb</sub> | -40 to +85  | °C   |
| Storage temp. range   |                         | T <sub>stg</sub> | -40 to +100 | °C   |
| Lead soldering temp.  | t < 5s, 3mm from case   | T <sub>slg</sub> | 260         | °C   |

**Optical and Electrical Characteristics**

T<sub>amb</sub>= 25°C, unless otherwise specified

| Parameter                 | Symbol            | Conditions            | Min | typ | max | Unit |
|---------------------------|-------------------|-----------------------|-----|-----|-----|------|
| Forward voltage           | V <sub>F</sub>    | I <sub>F</sub> = 20mA |     | 3.2 | 3.8 | V    |
| Reverse current           | V <sub>R</sub>    | I <sub>R</sub> = 10µA | 5   |     |     | V    |
| Luminous intensity        | I <sub>v</sub>    | I <sub>F</sub> = 20mA | 20  | 30  |     | mcd  |
| Peak wavelength           | λ <sub>p</sub>    | I <sub>F</sub> = 20mA | 395 | 400 | 405 | nm   |
| Dominant Wavelength       | λ <sub>D</sub>    | I <sub>F</sub> = 20mA | 400 | 410 | 420 | nm   |
| Spectral bandwidth at 50% | Δλ <sub>0,5</sub> | I <sub>F</sub> = 20mA |     | 30  |     | nm   |
| Viewing angle             | φ                 | I <sub>F</sub> = 20mA |     | 30  |     | deg. |

Tolerance of Viewing Angle: -10/+5deg.



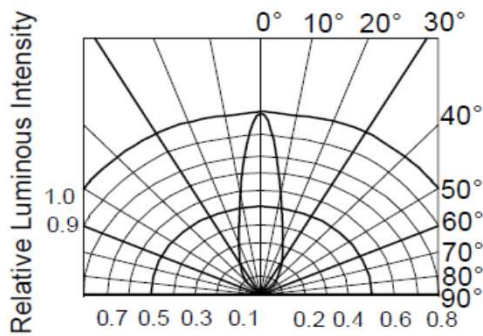
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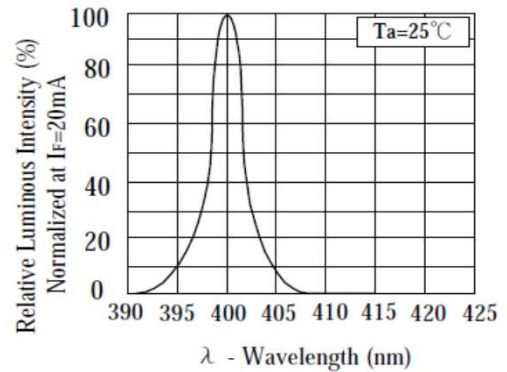
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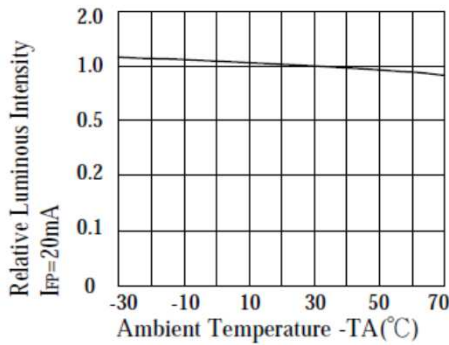
|   |                 |
|---|-----------------|
| <b>Typical optical-electrical characteristic curves</b> | <b>page 2/2</b> |
|---|-----------------|



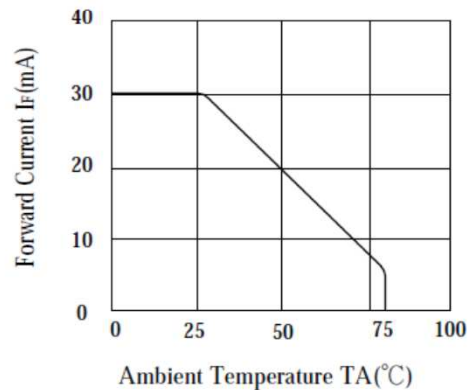
**RADIATION DIAGRAM**



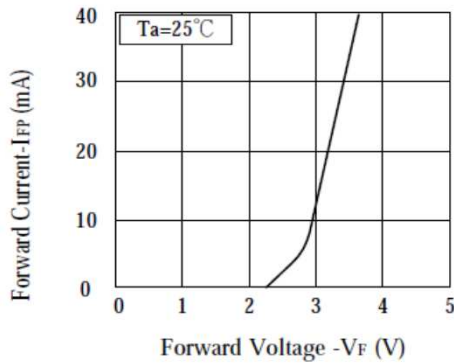
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



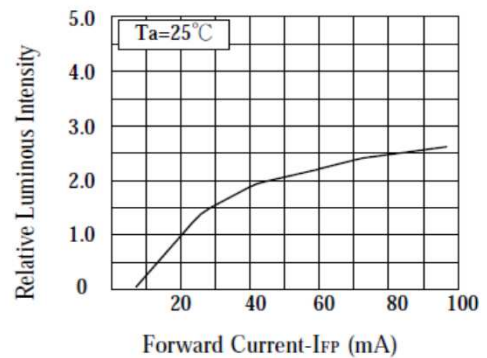
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**