

# Ultra Violet LED Lamp

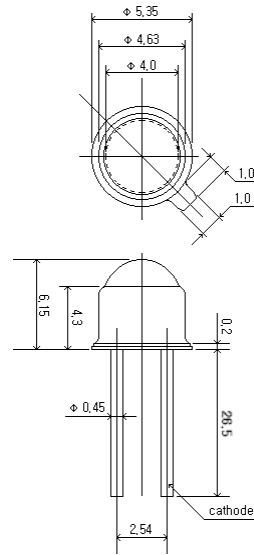
## RLT370-TO-18

### Features

- TO-18 ball lens package
- Chip material based on GaN

### Applications

- Deodorant : With photocatalyst
- Light source for sensor



### Absolute Maximum Ratings (Ta = 25°C)

| Parameter                           | Symbol           | Value                   | Unit |
|-------------------------------------|------------------|-------------------------|------|
| Power Dissipation                   | P <sub>d</sub>   | 120                     | mW   |
| Continuous Forward Current          | I <sub>F</sub>   | 25                      | mA   |
| Peak Forward Current <sup>? 1</sup> | I <sub>FM</sub>  | 100                     | mA   |
| Reverse Voltage                     | V <sub>R</sub>   | 5                       | V    |
| Operating Temperature               | T <sub>opr</sub> | - 30 to + 80            | °C   |
| Storage Temperature                 | T <sub>stg</sub> | - 40 to + 100           | °C   |
| Soldering Temperature               | T <sub>sol</sub> | 260 (with in 5 seconds) | °C   |

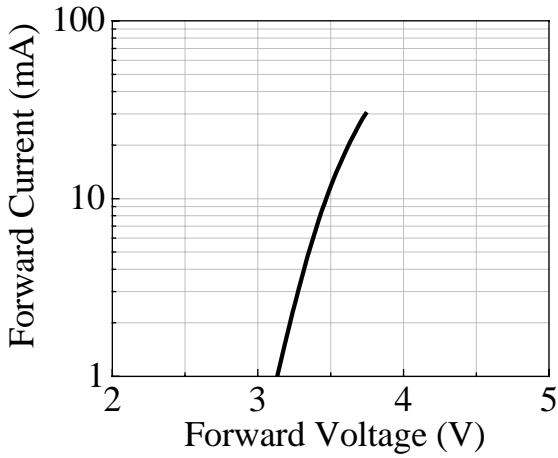
? 1 Duty ratio = 1/10, Pulse width = 0.5 ms

### Electro-optical Characteristics (Ta = 25°C)

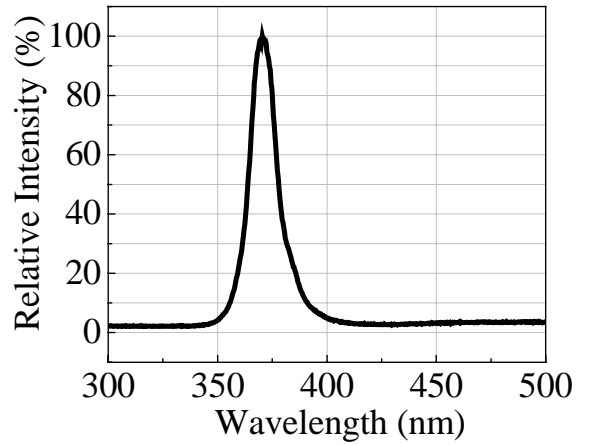
| Parameter                    | Symbol            | Condition                   | Min | Typ. | Max | Unit |
|------------------------------|-------------------|-----------------------------|-----|------|-----|------|
| Forward Voltage              | V <sub>F</sub>    | I <sub>F</sub> = 20 mA      | -   | 3.6  | 4.0 | V    |
| Reverse Current              | I <sub>R</sub>    | V <sub>R</sub> = 5 V        |     |      | 10  | μA   |
| Radiant Flux                 | P <sub>o</sub>    | I <sub>F</sub> = 20 mA   U1 | 0.2 | 0.3  | 0.4 | mW   |
|                              |                   | I <sub>F</sub> = 20 mA   U2 | 0.4 | 0.5  | 0.6 | mW   |
| Viewing angle                | 2T <sub>1/2</sub> | I <sub>F</sub> = 20 mA      |     | 15   | -   | deg. |
| Peak Wavelength              | λ <sub>p</sub>    | I <sub>F</sub> = 20 mA      | 370 | 373  | 380 | nm   |
| Spectrum radiation Bandwidth | λ <sub>?</sub>    | I <sub>F</sub> = 20 mA      |     | 20   |     | nm   |

# Ultra Violet LED Lamp RLT370-TO-18

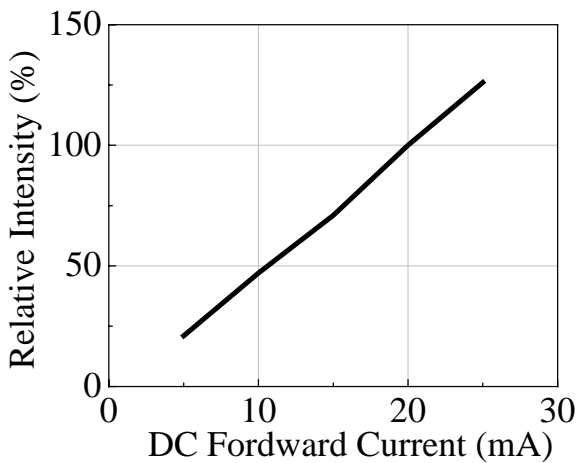
## 1. Forward Voltage vs. Forward Current



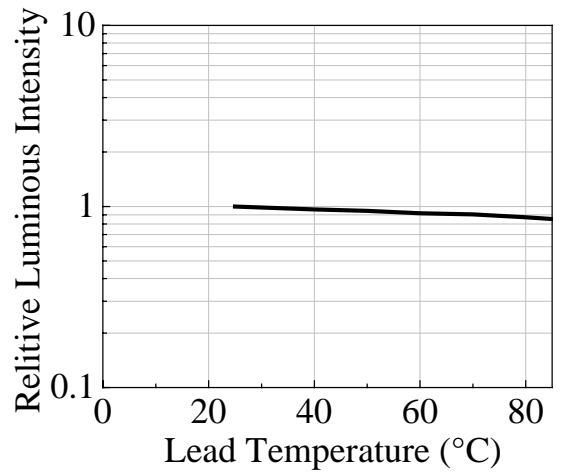
## 2. Peak wavelength vs. Relative Intensity



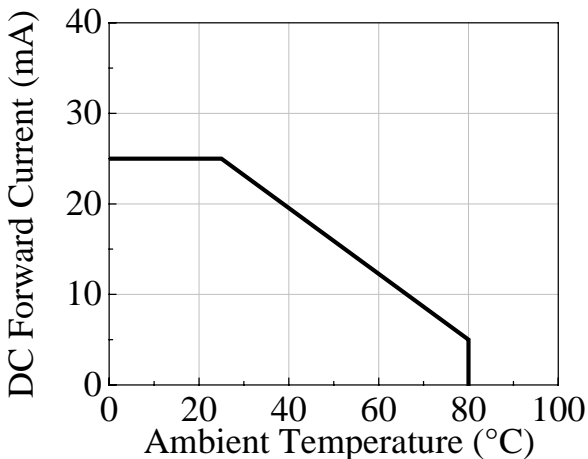
## 3. Forward Current vs. Relative Intensity



## 4. Ambient Temperature vs. Relative Intensity



## 5. Ambient Temperature vs. Forward Current



## 6. Radiation Angle

