

# Ultra Violet LED Lamp

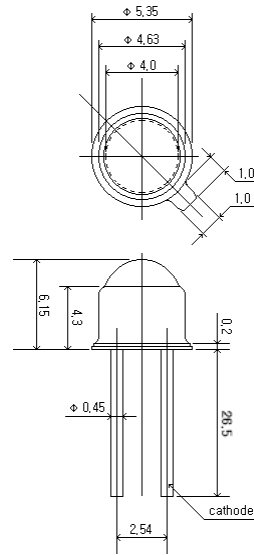
## RLT370-TO-18

### 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

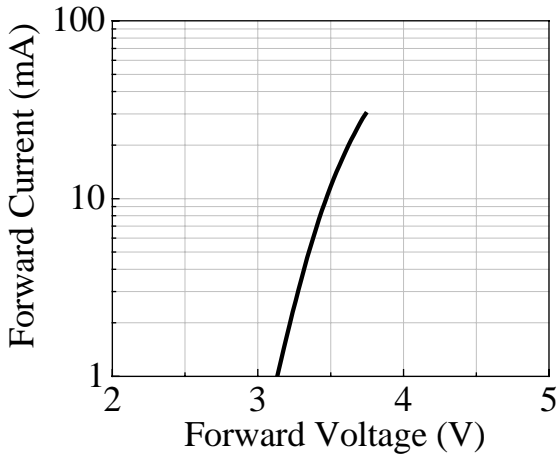
? 1 Duty ratio = 1/10, Pulse width = 0.5 ms

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

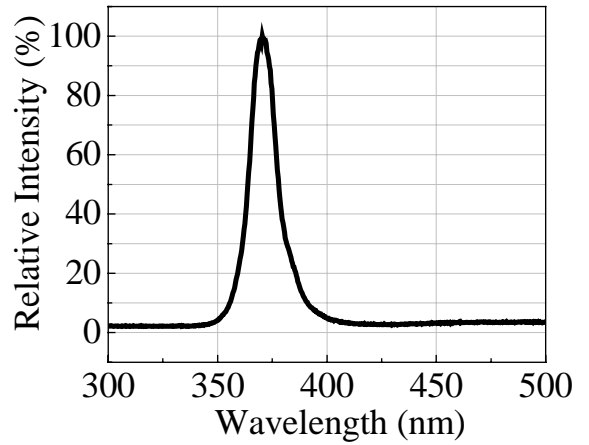
Parameter	Symbol	Condition	Min	Typ.	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	-	3.6	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V			10	μA
Radiant Flux	P <sub>o</sub>	I <sub>F</sub> = 20 mA   U1	0.2	0.3	0.4	mW
		I <sub>F</sub> = 20 mA   U2	0.4	0.5	0.6	mW
Viewing angle	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

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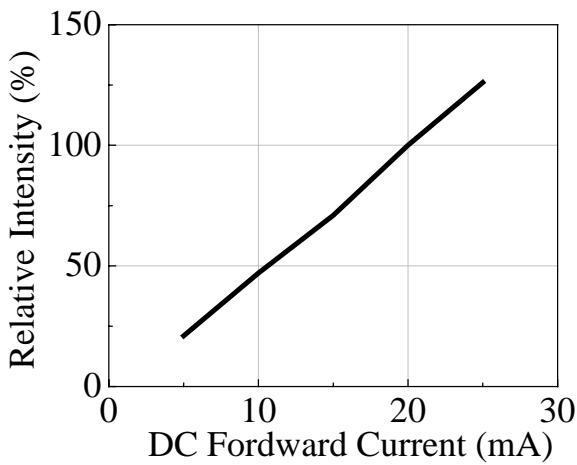
## 1. Forward Voltage vs. Forward Current



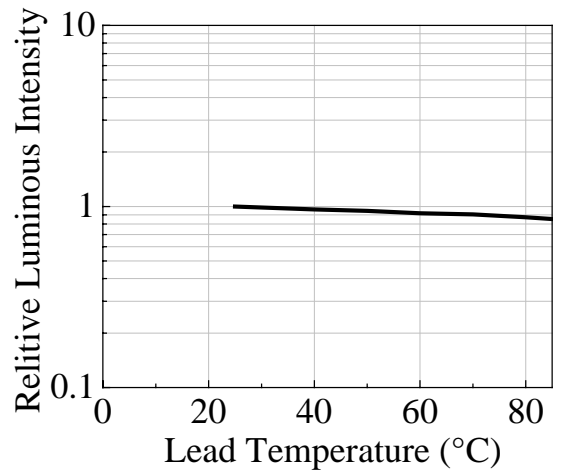
## 2. Peak wavelength vs. Relative Intensity



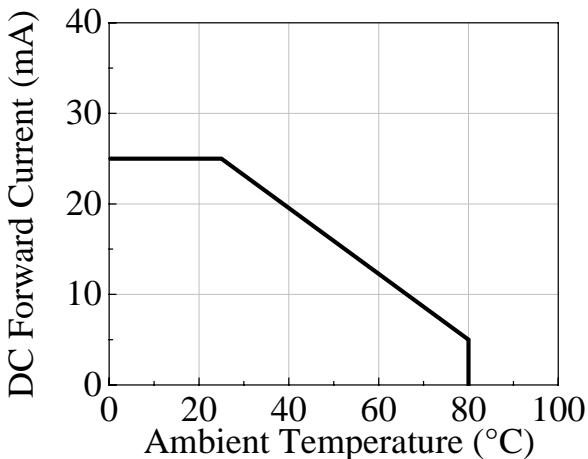
## 3. Forward Current vs. Relative Intensity



## 4. Ambient Temperature vs. Relative Intensity



## 5. Ambient Temperature vs. Forward Current



## 6. Radiation Angle

