

TENTATIVE TOSHIBA LED Lamp InGaAlP Orange Light Emission

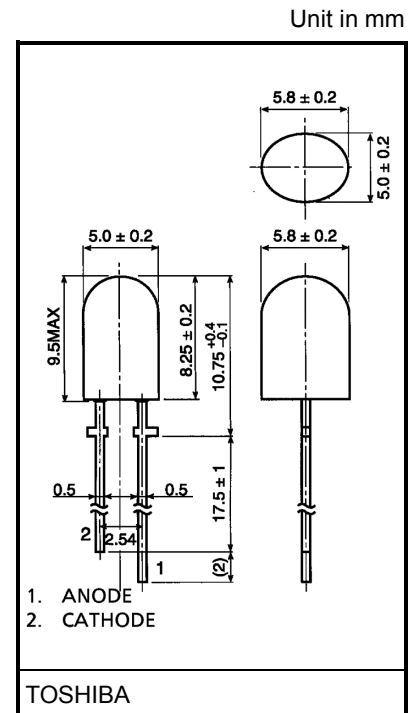
TLOU248

Panel Circuit Indicator

- InGaAlP orange LED
- Elliptical lens: Colored transparent lens
- Wide radiation
- Low drive current, high intensity orange light emission
- Plastic molded colored transparent lens provides for high contrast of on-off ratio.
- Fast response time, capable of pulse operation.
- Applications: Suitable for outdoor message signboard, full color panel, backlight.

Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|-----------------------------|-----------|---------|------|
| Forward current | I_F | 30 | mA |
| Reverse voltage | V_R | 4 | V |
| Power dissipation | P_D | 72 | mW |
| Operating temperature range | T_{opr} | -30~85 | °C |
| Storage temperature range | T_{stg} | -40~120 | °C |



Weight: 0.3 g

Electrical And Optical Characteristics (Ta = 25°C)

| Characteristic | Symbol | Test Condition | Min | Typ. | Max | Unit |
|--------------------------|-----------------|------------------------------|-----|------|-----|---------------|
| Forward voltage | V_F | $I_F = 20 \text{ mA}$ | — | 2.0 | 2.4 | V |
| Reverse current | I_R | $V_R = 4 \text{ V}$ | — | — | 50 | μA |
| Luminous intensity | I_V | $I_F = 20 \text{ mA}$ (Note) | 85 | 450 | — | mcd |
| Peak emission wavelength | λ_P | $I_F = 20 \text{ mA}$ | — | 612 | — | nm |
| Spectral line half width | $\Delta\lambda$ | $I_F = 20 \text{ mA}$ | — | 15 | — | nm |
| Dominant wavelength | λ_d | $I_F = 20 \text{ mA}$ | — | 605 | — | nm |

(Note): Lamps are classified into the following ranks according to their luminous intensity.

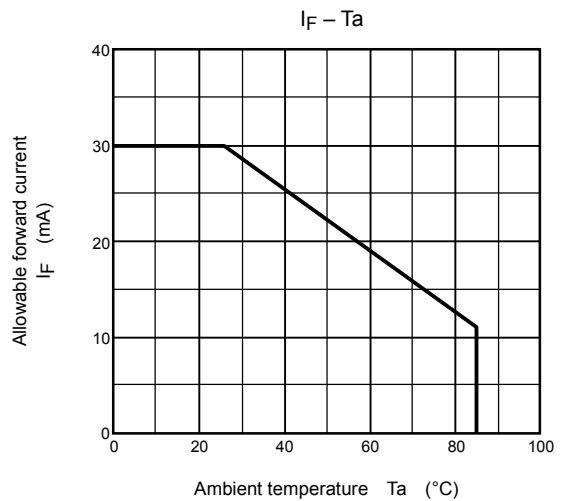
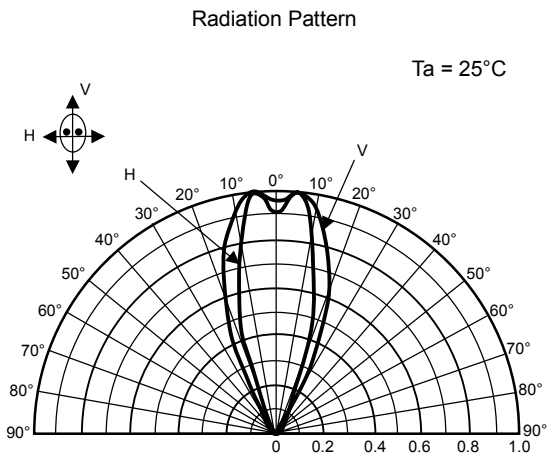
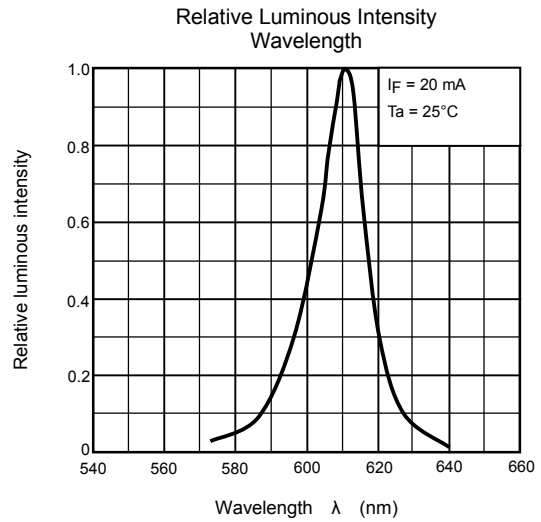
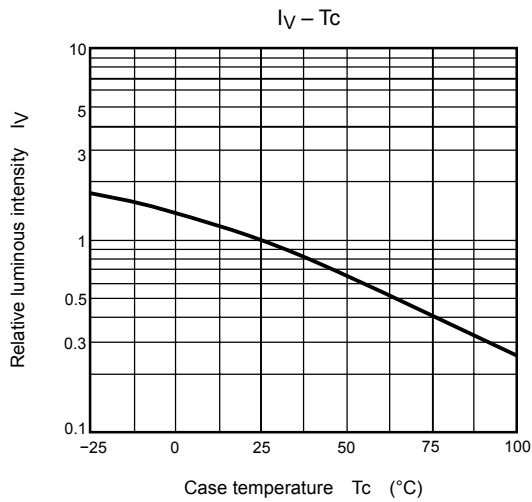
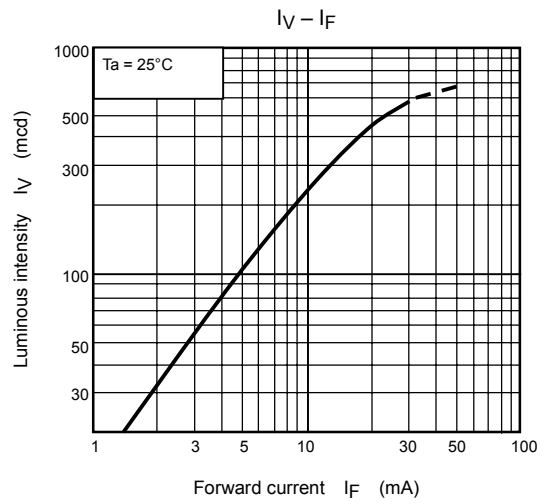
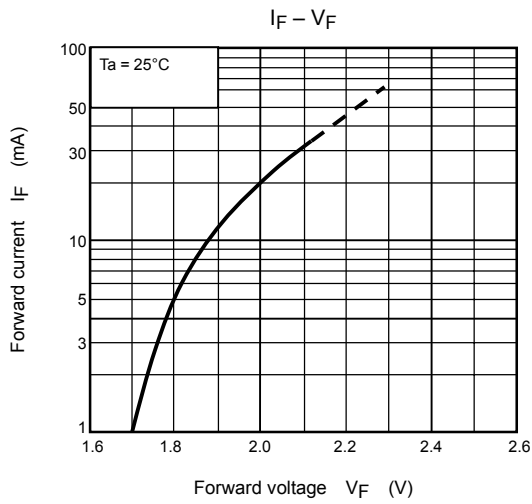
Measurement tolerance for each limit is $\pm 15\%$.

N: 100~200 mcd, P: 180~360 mcd, Q: 320~640 mcd

Precaution

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3 s max
(Soldering portion of lead: Below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.



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