

TOSHIBA LED LAMP InGaAlP ORANGE LIGHT EMISSION

TLOE260A

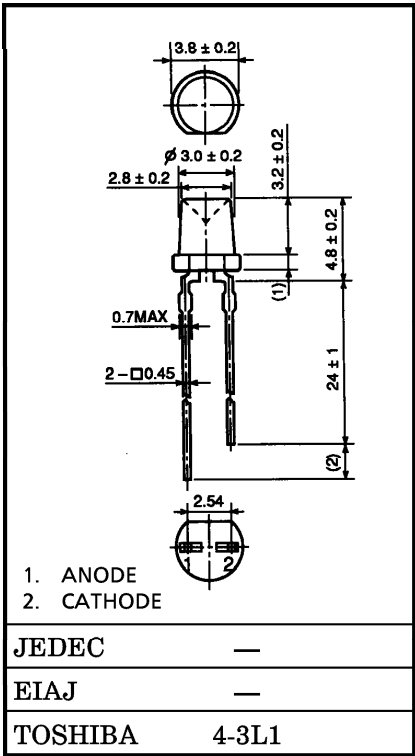
PANEL CIRCUIT INDICATOR

- 3.0 mm DIAMETER
- InGaAlP ORANGE LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Orange Light Emission  
Recommended Forward Current :  $I_F = 15\sim 20$  mA (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- High Power Luminous Intensity
- Wide Radiation Pattern.
- APPLICATIONS : Suitable for Backlighting.

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Forward Current (DC)        | $I_F$     | 50      | mA   |
| Reverse Voltage             | $V_R$     | 4       | V    |
| Power Dissipation           | $P_D$     | 125     | mW   |
| Operating Temperature Range | $T_{opr}$ | -30~85  | °C   |
| Storage Temperature Range   | $T_{stg}$ | -40~120 | °C   |

Unit in mm



Weight : 0.12 g

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC           |               | SYMBOL          | TEST CONDITION               | MIN  | TYP. | MAX | UNIT          |
|--------------------------|---------------|-----------------|------------------------------|------|------|-----|---------------|
| Forward Voltage          |               | $V_F$           | $I_F = 20 \text{ mA}$        | —    | 1.95 | 2.4 | V             |
| Reverse Current          |               | $I_R$           | $V_R = 4 \text{ V}$          | —    | —    | 50  | $\mu\text{A}$ |
| Luminous Intensity       | TLOE260A      | $I_V$           | $I_F = 20 \text{ mA}$ (Note) | 15.3 | 70   | —   | mcd           |
|                          | TLOE260A (LM) |                 |                              | 27.2 | —    | 129 |               |
| Peak Emission Wavelength |               | $\lambda_p$     | $I_F = 20 \text{ mA}$        | —    | 612  | —   | nm            |
| Spectral Line Half Width |               | $\Delta\lambda$ | $I_F = 20 \text{ mA}$        | —    | 15   | —   | nm            |
| Dominant Wavelength      |               | $\lambda_d$     | $I_F = 20 \text{ mA}$        | —    | 605  | —   | nm            |

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

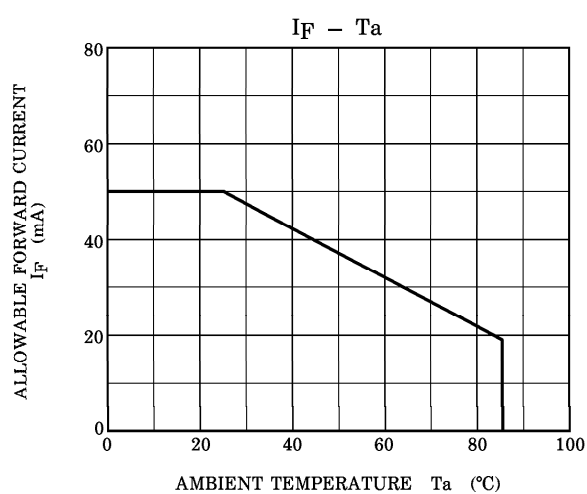
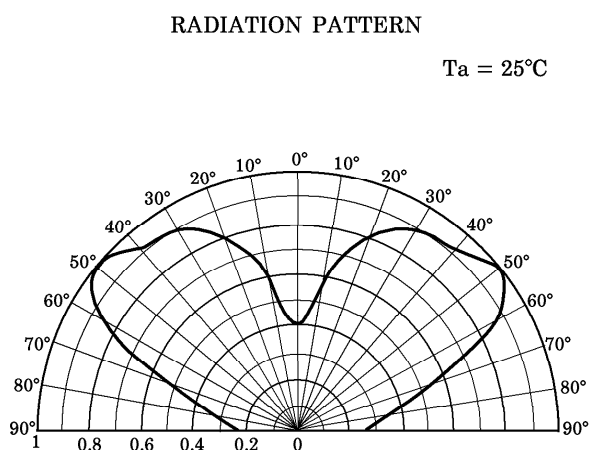
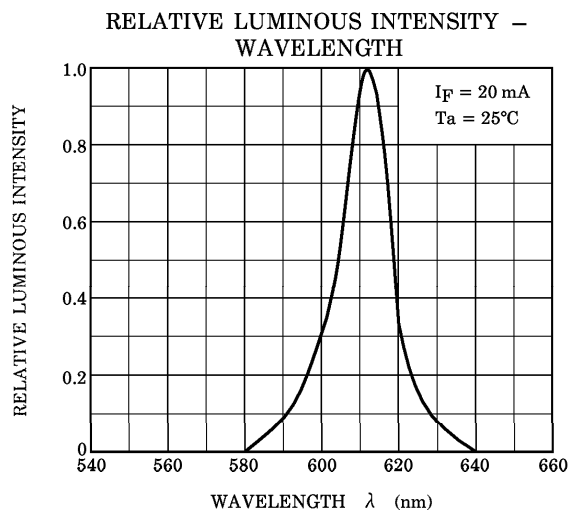
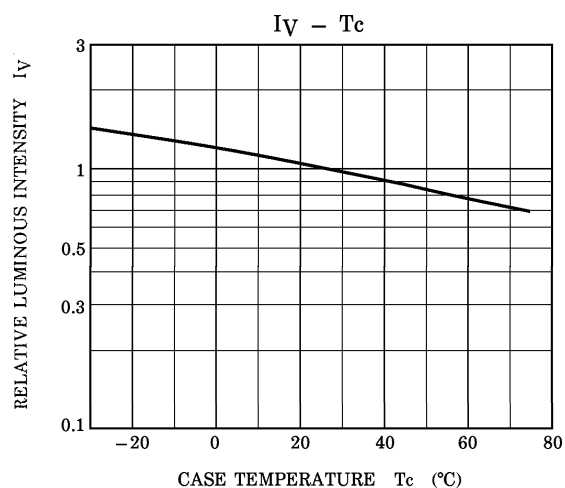
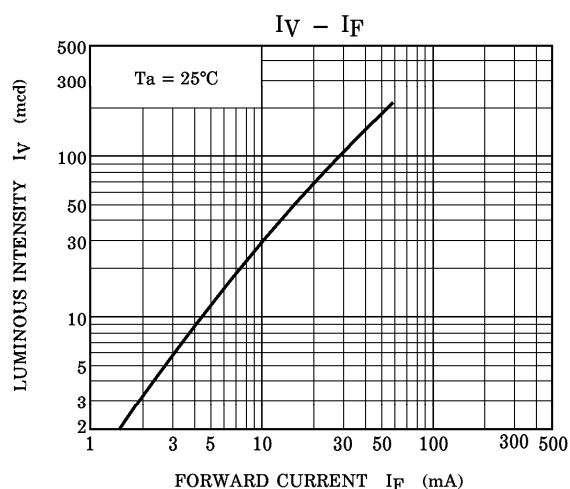
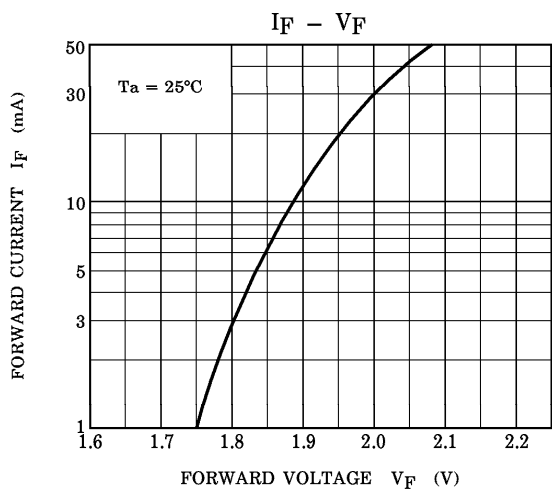
Measurement tolerance for each limit is  $\pm 15\%$ .

K : 18-36 mcd, L : 32-64 mcd, M : 56-112 mcd.

## PRECAUTION

Please be careful of the followings

- Soldering temperature : 260°C max      Soldering time : 3 s max  
(Soldering portion of lead : up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm 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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