TOSHIBA TLOU267

TOSHIBA LED LAMP InGaA&P YELLOW LIGHT EMISSION

TLOU267

PANEL CIRCUIT INDICATOR

- 3.1 mm DIAMETER (T1)
- InGaA&P YELLOW LED
- All Plastic Mold Type.
- Colored Transparent Lens
- Low Drive Current, High Intensity Yellow Light Emission Recommended Forward Current : $I_F = 15 \sim 20 \text{ mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|--------------------|---------|----------------------|
| Forward Current (DC) | $\mathbf{I_F}$ | 30 | mA |
| Reverse Voltage | $v_{\mathbf{R}}$ | 4 | V |
| Power Dissipation | $P_{\mathbf{D}}$ | 72 | mW |
| Operating Temperature Range | ${ m T_{opr}}$ | -30~85 | °C |
| Storage Temperature Range | $\mathrm{T_{stg}}$ | -40~120 | $^{\circ}\mathrm{C}$ |

ø 3.8 ± 0.2 Ø3.1±0.2 5.1±0.2 0.45 3

Unit in mm

| 2. CATHODE | | |
|------------|-------|--|
| JEDEC | _ | |
| EIAJ | _ | |
| TOSHIBA | 4-3H1 | |

Weight: 0.14 g

1. ANODE

• Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic

garbage.

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ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN | TYP. | MAX | UNIT |
|--------------------------|------------------------|--|------|------|-----|---------|
| Forward Voltage | $V_{\mathbf{F}}$ | $I_{ m F}=20{ m mA}$ | _ | 2.0 | 2.4 | V |
| Reverse Current | $I_{\mathbf{R}}$ | $V_R = 4 V$ | _ | _ | 50 | μ A |
| Luminous Intensity | $I_{ m V}$ | $I_F = 20 \mathrm{mA} (\mathrm{Note})$ | 47.6 | 200 | _ | mcd |
| Peak Emission Wavelength | $\lambda_{\mathbf{p}}$ | $I_{ m F}=20{ m mA}$ | _ | 612 | | nm |
| Spectral Line Half Width | Δλ | $I_{ m F}=20{ m mA}$ | _ | 15 | _ | nm |
| Dominant Wavelength | $\lambda_{\mathbf{d}}$ | $I_{ m F}=20{ m mA}$ | _ | 605 | | nm |

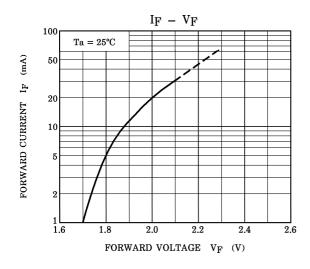
(Note): Lamps are classified into the following ranks according to their luminous intensity.

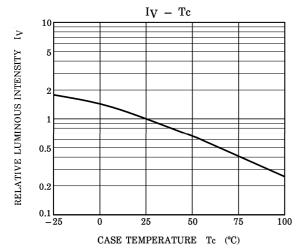
Measurement tolerance for each limit is $\pm 15\%$. M: 56-112 mcd, N: 100-200 mcd, P: 180-360 mcd

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 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.







 $Ta = 25^{\circ}C$

