TOSHIBA LED Lamp InGaAlP Yellow Light Emission

TLYH180P

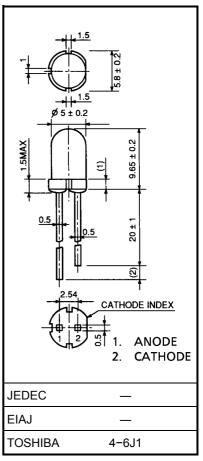
Panel Circuit Indicator

- 5mm diameter (T1-3 / 4)
- InGaAlP yellow LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity yellow light emission Recommended forward current: IF = $1\sim20$ mA (DC)
- All plastic molded lens, provides an excellent on-off contrast ratio.
- Fast response time, capable of pulse operation.
- High power luminous intensity
- Without stand-offs
- Applications: Suitable for outdoor message signboard, safety equipment.

Maximum Ratings (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit | |
|-----------------------------|------------------|----------------|------|--|
| Forward current (DC) | l _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: 0.31 g

Electrical And Optical Characteristics (Ta = 25°C)

| Characteristic | | Symbol | Test Condition | | Min | Тур. | Max | Unit |
|-----------------------------|---------------|-----------------------|-----------------------|--------|------|------|-------|------|
| Forward voltage | | V_{F} | I _F = 20mA | | _ | 2.1 | 2.5 | V |
| Reverse current | | I _R | V _R = 4V | | _ | _ | 50 | μΑ |
| Luminous | TLYH180P | - I _V | I _F = 20mA | (Note) | 2720 | 8000 | _ | mcd |
| intensity | TLYH180P (VW) | | | | 4760 | _ | 23000 | |
| Peak emission wavelength | | λ _P | I _F = 20mA | | _ | 590 | _ | nm |
| Spectral line half width Δλ | | I _F = 20mA | | _ | 13 | _ | nm | |
| Dominant wavelenght | | λ _d | I _F = 20mA | | | 587 | _ | nm |

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

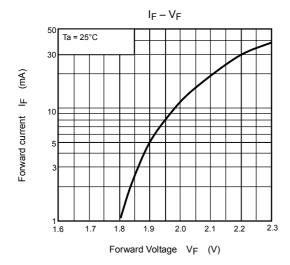
Measurement tolerance for each limit is ±15%.

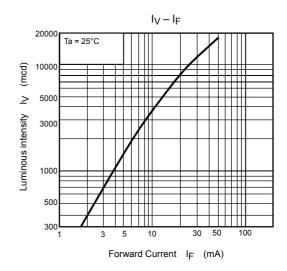
U: 3200-6400mcd, V: 5600-11200mcd, W: 10000-20000mcd.

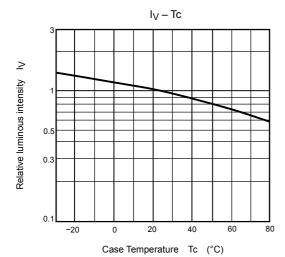
Precaution

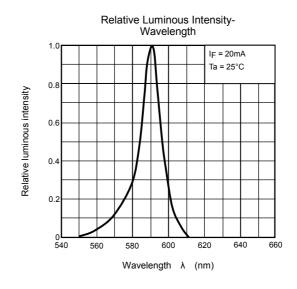
Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3s max (Soldering portion of lead: Up to 2mm 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.

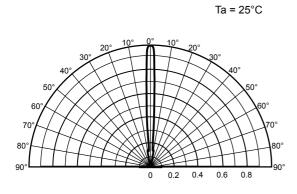


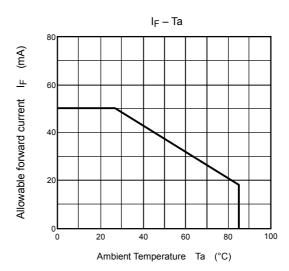






Radiation Pattern





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