TOSHIBA LED Lamp InGaAlP Red Light Emission

TLSH263P

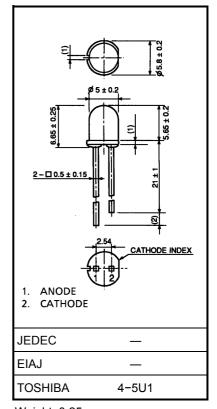
Panel Circuit Indicator

- 5.0mm diameter
- InGaAlP red LED
- All plastic mold type.
- Colorless clear lens
- Low drive current , high intensity red light emission Recommended forward current: IF = $15\sim20mA(DC)$
- 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.
- 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: 0.25 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 intensity | ly | I _F = 20mA (Note) | 85 | 300 | _ | mcd |
| Peak emission wavelength | λ_{p} | I _F = 20mA | _ | 623 | _ | nm |
| Spectral line half width | Δλ | I _F = 20mA | _ | 15 | _ | nm |
| Dominant wavelength | λ _d | I _F = 20mA | _ | 613 | _ | nm |

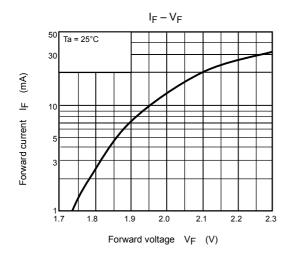
(Note): Lamps are classified into the following three ranks according to their luminous intensity. Measurement tolerance for each limit is ±15%.

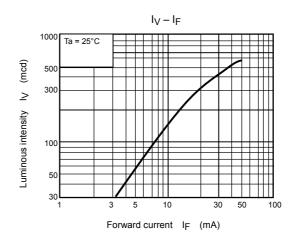
N: 100-200mcd, P: 180-360mcd, Q: 320-640mcd.

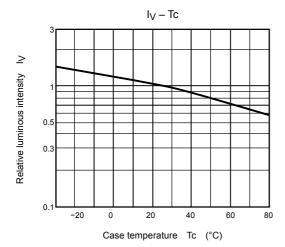
Precaution

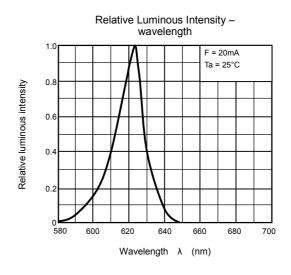
Please be careful of the followings

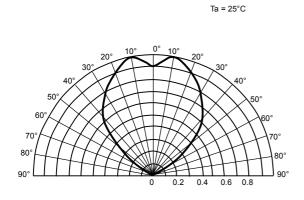
- Soldering temperature: 260°C max Soldering time: 3s max (Soldering portion of lead: Up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- 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.



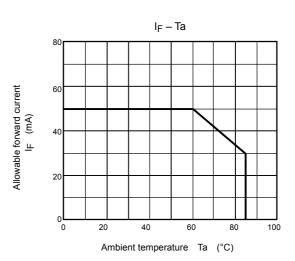








Radiation Pattern



RESTRICTIONS ON PRODUCT USE

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