

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17008

DT-41-21

## TLR111

## GaP RED LIGHT EMISSION

## FEATURES:

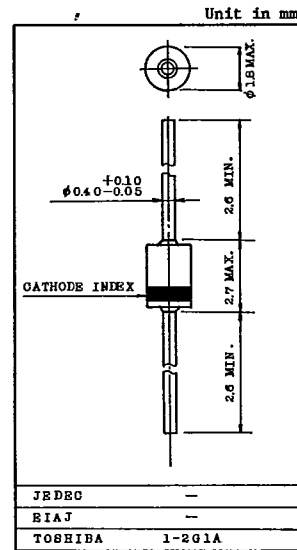
- Slim Mini Glass Sealed Type.
- Small Package & Wide Viewing Angle
  - Suitable for Compact Equipment as a Operating Indicator.
- High Reliability by Glass Sealed Body.

## MAXIMUM RATINGS (Ta = 25 °C)

| CHARACTERISTIC              | SYMBOL           | RATING    | UNIT |
|-----------------------------|------------------|-----------|------|
| Forward Current (DC)        | I <sub>F</sub>   | 15        | mA   |
| Forward Current (Pulse)     | I <sub>FP</sub>  | 80        | mA   |
| Reverse Voltage             | V <sub>R</sub>   | 4         | V    |
| Operating Temperature Range | T <sub>opr</sub> | -30 ~ 80  | °C   |
| Storage Temperature Range   | T <sub>stg</sub> | -30 ~ 100 | °C   |
| Solder Temperature Range    | T <sub>sol</sub> | 260       | °C   |

\*1 Duty Ratio: 1/10, Pulse Width: 1ms

\*2 Soldering portion of lead: up to 3.2mm from the body of the device.



## ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25 °C)

| CHARACTERISTIC            | SYMBOL         | TEST CONDITION       | MIN. | TYP. | MAX. | UNIT |
|---------------------------|----------------|----------------------|------|------|------|------|
| Forward Voltage           | V <sub>F</sub> | I <sub>F</sub> =10mA | 1.7  | 1.95 | 2.5  | V    |
| Reverse Current           | I <sub>R</sub> | V <sub>R</sub> =4V   | -    | -    | 5    | μA   |
| Luminous Intensity        | I <sub>v</sub> | I <sub>F</sub> =10mA | -    | 200  | -    | mcd  |
| Peak Emission Wave Length | λ <sub>P</sub> | I <sub>F</sub> =10mA | -    | 700  | -    | nm   |
| Spectral Line Half Width  | Δλ             | I <sub>F</sub> =10mA | -    | 100  | -    | nm   |