

TOSHIBA LED LAMP InGaAlP RED LIGHT EMISSION

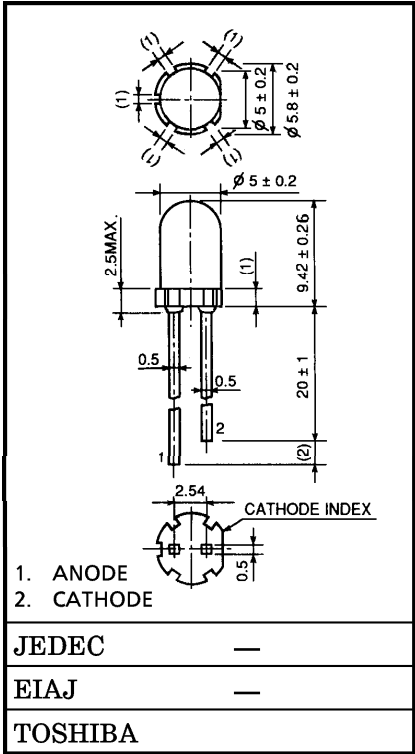
TLRMH151P

- 5 mm DIAMETER (T1-3 / 4)
- InGaAlP RED LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Red Light Emission
- 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

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I <sub>F</sub>	50	mA
Reverse Voltage	V <sub>R</sub>	4	V
Power Dissipation	P <sub>D</sub>	125	mW
Operating Temperature Range	T <sub>opr</sub>	−40~100	°C
Storage Temperature Range	T <sub>stg</sub>	−40~120	°C

Unit in mm



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## ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Forward Voltage	$V_F$	$I_F = 20 \text{ mA}$	—	2.05	2.5	V
Reverse Current	$I_R$	$V_R = 4 \text{ V}$	—	—	50	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20 \text{ mA}$ (Note)	1530	4200	—	mcd
Peak Emission Wavelength	$\lambda_p$	$I_F = 20 \text{ mA}$	—	636	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20 \text{ mA}$	—	20	—	nm
Dominant Wavelength	$\lambda_d$	$I_F = 20 \text{ mA}$	—	626	—	nm

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

T : 1800-3600 mcd, U : 3200-6400 mcd, V : 5600-11200 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.

