

TOSHIBA

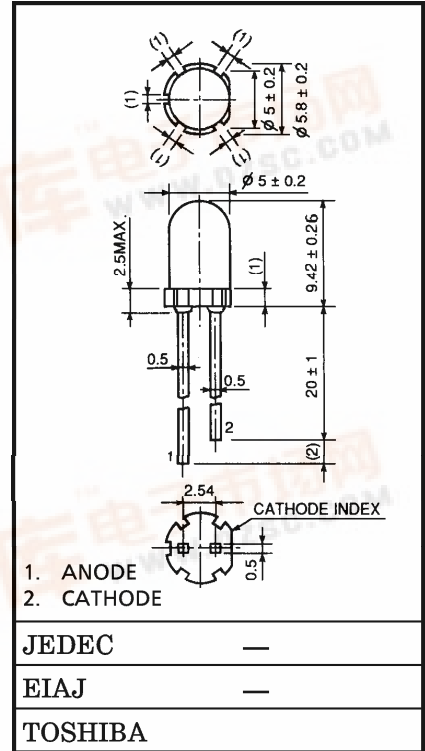
TLRMH151P

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

Unit in mm



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}	-40~100	°C
Storage Temperature Range	T _{stg}	-40~120	°C

Weight : 0.31 g

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- 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_F	$I_F = 20 \text{ mA}$	—	2.05	2.5	V
Reverse Current	I_R	$V_R = 4 \text{ V}$	—	—	50	μA
Luminous Intensity	I_V	$I_F = 20 \text{ mA}$ (Note)	1530	4200	—	mcd
Peak Emission Wavelength	λ_p	$I_F = 20 \text{ mA}$	—	636	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20 \text{ mA}$	—	20	—	nm
Dominant Wavelength	λ_d	$I_F = 20 \text{ mA}$	—	626	—	nm

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

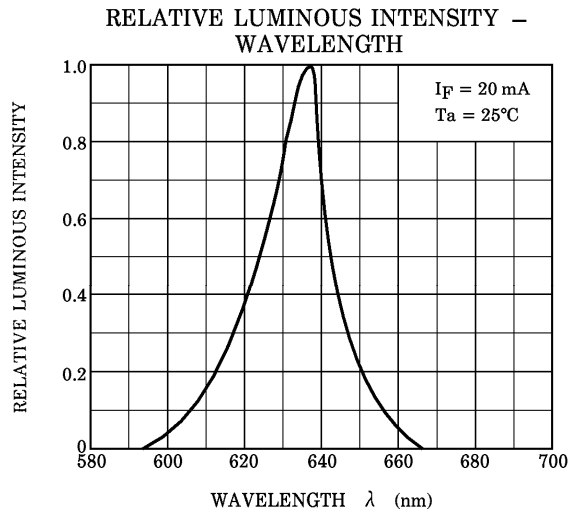
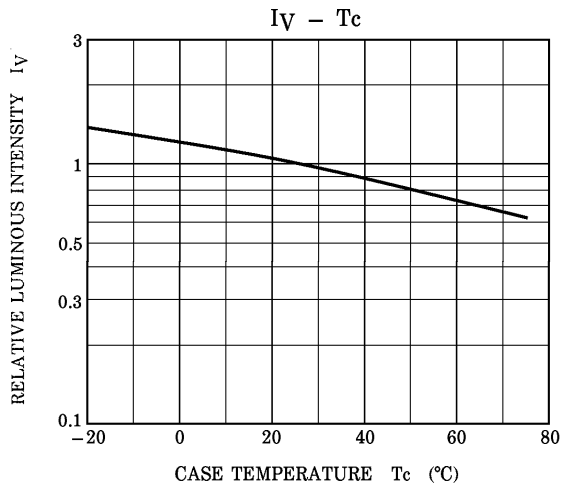
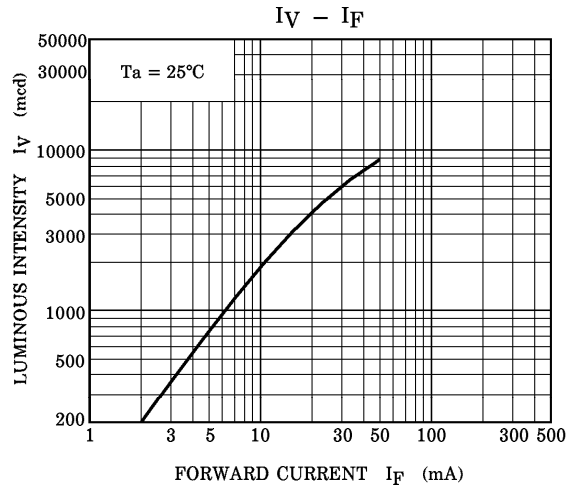
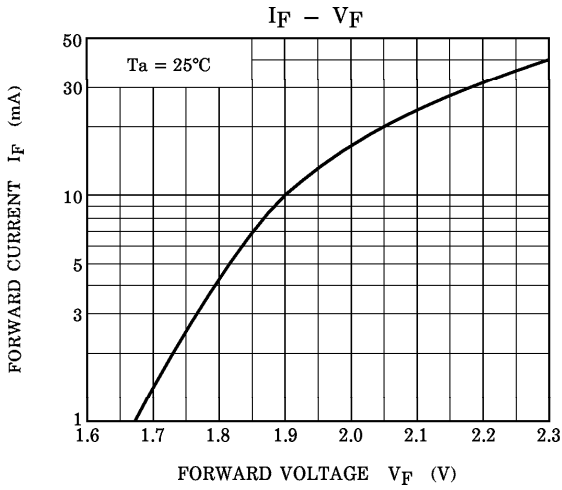
Measurement tolerance for each limit is $\pm 15\%$.

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.



RADIATION PATTERN

