

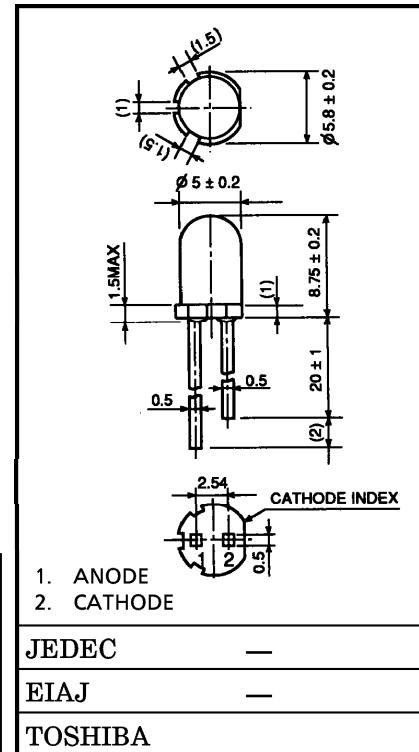
TOSHIBA LED LAMP InGaAlP RED LIGHT EMISSION

TLRMH156P

- 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 _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



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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 mA	—	2.05	2.5	V
Reverse Current	I _R	V _R = 4 V	—	—	50	μA
Luminous Intensity	I _V	I _F = 20 mA (Note)	476	900	—	mcd
Peak Emission Wavelength	λ _p	I _F = 20 mA	—	636	—	nm
Spectral Line Half Width	Δλ	I _F = 20 mA	—	20	—	nm
Dominant Wavelength	λ _d	I _F = 20 mA	—	626	—	nm

(Note) : Lamps are classified into the following ranks according to their luminous intensity.
 Measurement tolerance for each limit is ±15%.
 R : 560-1120 mcd, S : 1000-2000 mcd, T : 1800-3600 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.

