TOSHIBA TLRMH265P

### TOSHIBA LED Lamp InGaAlP Red Light Emission

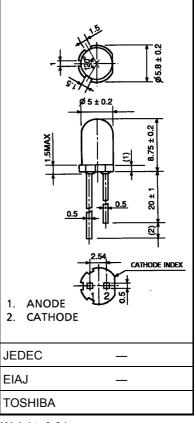
# TLRMH265P

- 5mm diameter
- InGaAlP red LED
- Diffused milky white 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.
- Straight lead type
- Application: Exit sign, security equipment

## **Maximum Ratings (Ta = 25°C)**

Characteristic	Symbol	Rating	Unit
Forward current (DC)	l <sub>F</sub>	50	mA
Reverse voltage	V <sub>R</sub>	4	V
Power dissipation	PD	125	mW
Operating temperature range	T <sub>opr</sub>	<b>−40~100</b>	°C
Storage temperature range	T <sub>stg</sub>	<b>−40~120</b>	°C

Unit in mm



Weight: 0.31 g

## **Electrical And Optical Characteristics (Ta = 25°C)**

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	_	2.05	2.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 4V	_	_	50	μΑ
Luminous intensity	ly	I <sub>F</sub> = 20mA	272	650	_	mcd
Peak emission wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20mA	_	636	_	nm
Spectral line half width	Δλ	I <sub>F</sub> = 20mA	_	20	_	nm
Dominant wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20mA	_	626	_	nm

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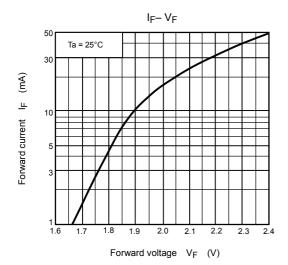
### **Precaution**

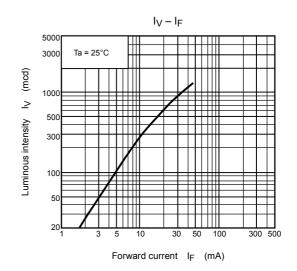
Please be careful of the followings

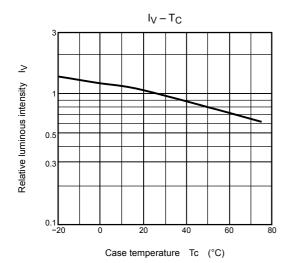
- Soldering temperature: 260°C max Soldering time: 3s max (Soldering portion of lead: Up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.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

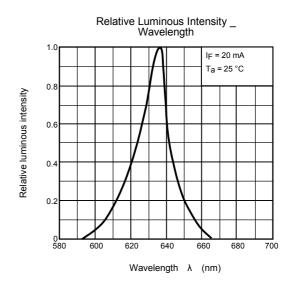
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## **TOSHIBA**





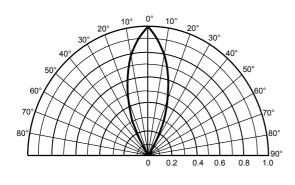


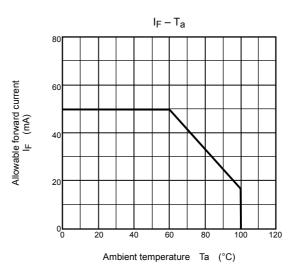


Radiation Pattern



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2002-09-25