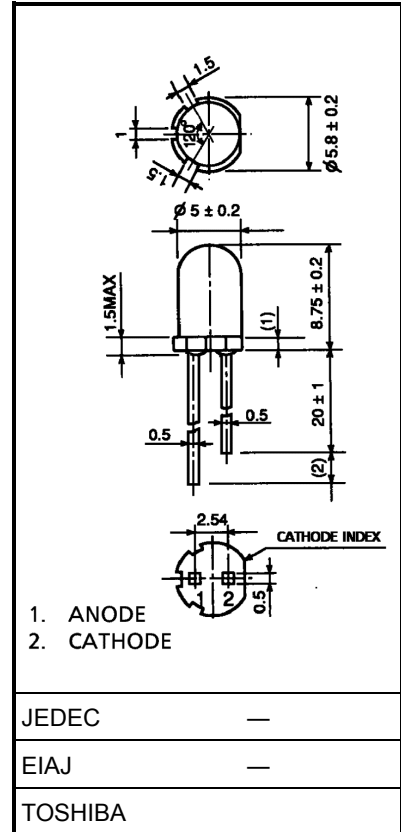


TOSHIBA LED Lamp InGaAlP Red Light Emission

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

Unit in mm



Weight: 0.31 g

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

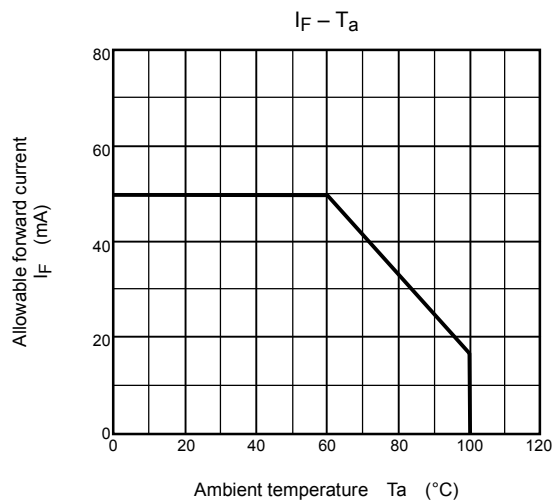
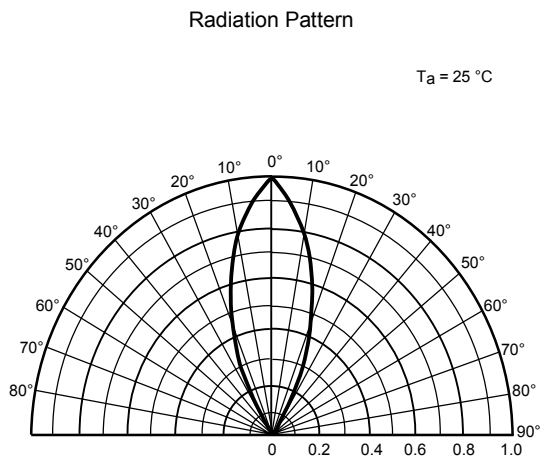
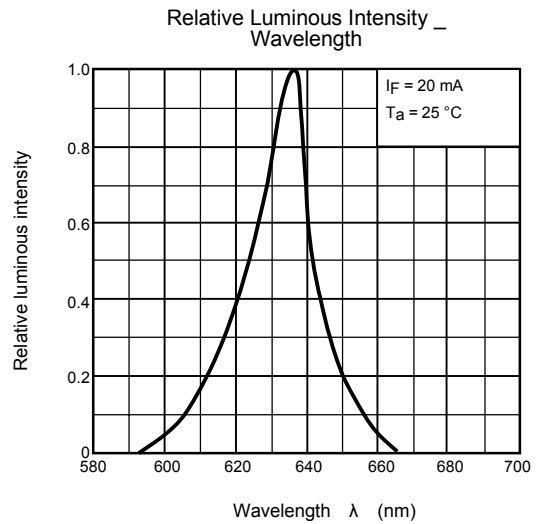
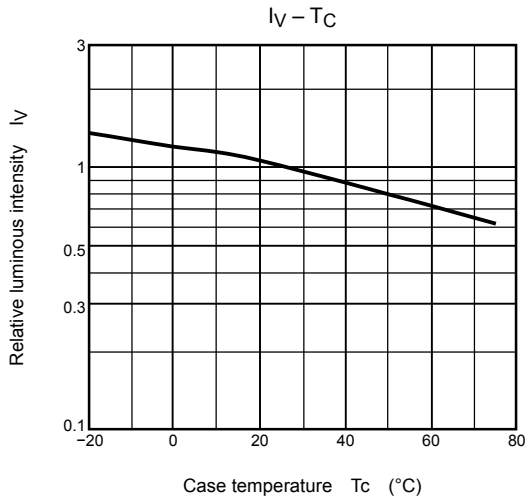
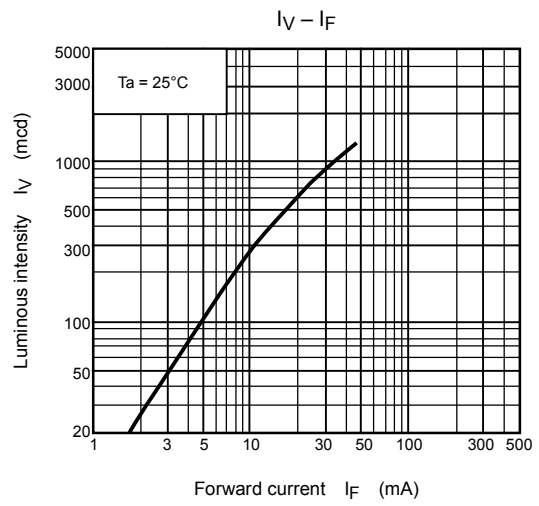
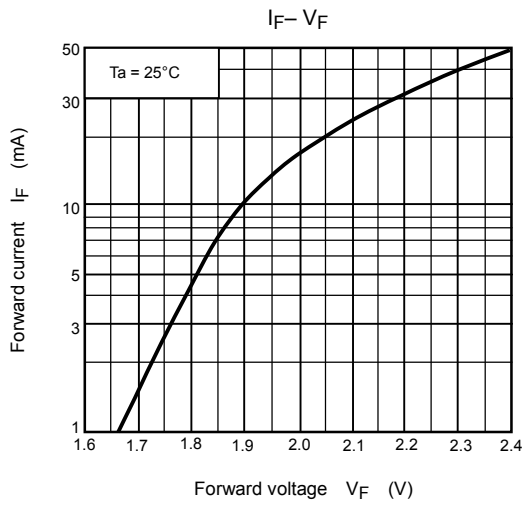
Electrical And Optical Characteristics (Ta = 25°C)

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	$I_F = 20\text{mA}$	272	650	—	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

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.



RESTRICTIONS ON PRODUCT USE

000707EAC

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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