TOSHIBA LED Lamp InGaAlP Red Light Emission

TLSH156P

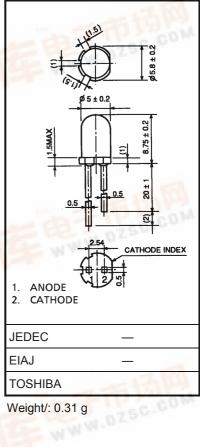
Panel Circuit Indicator

- 5mm diameter(T1-3 / 4)
- InGaAlP red LED
- All plastic mold type.
- Colorless clear lens
- Low drive current, high intensity red light emission Recommended forward current: $I_F = 1 \sim 20 \text{mA(DC)}$
- 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
- Applications: Suitable for outdoor message signboard, safety equipment, automotive use.

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}	-30~85	°C
Storage temperature range	T _{stg}	-40~120	°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	1-4	V _F	I _F = 20mA		_	2.1	2.5	V
Reverse current		I _R	V _R = 4V		_	_	50	μΑ
Luminous intensity	TLSH156P	- I _V	I _F = 20mA	(Note)	476	1400		mcd
	TLSH156P(RS)				476	N TO	2300	
Peak emission wavelength		λ _P	I _F = 20mA		- 74	623	_	nm
Spectral line half width		Δλ	I _F = 20mA		_	15	_	nm
Dominant Wavelength		λ _d	I _F = 20mA		_	613	_	nm

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

R: 560-1120mcd, S: 1000-2000mcd, T: 1800-3600mcd.



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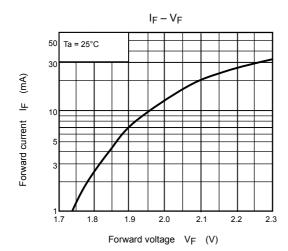
Precaution

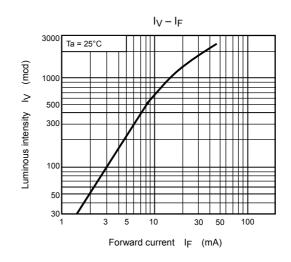
Please be careful of the followings

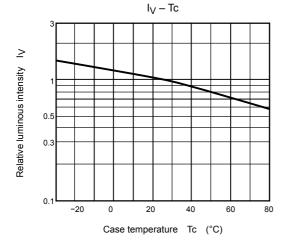
• Soldering temperature: 260°C max Soldering time: 3s max (Soldering portion of lead: Up to 2mm from the body of the device)

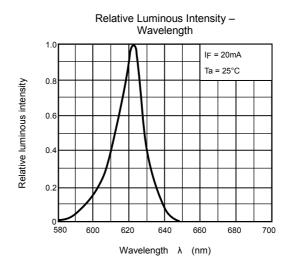
- If the lead is formed, the lead should be formed up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

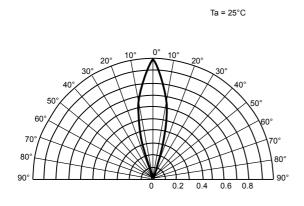
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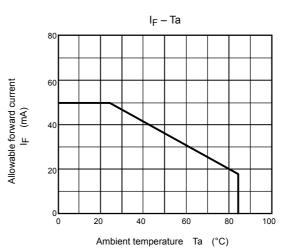








Radiation Pattern



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