

TOSHIBA LED LAMP InGaAlP ORANGE LIGHT EMISSION

TLOH190P

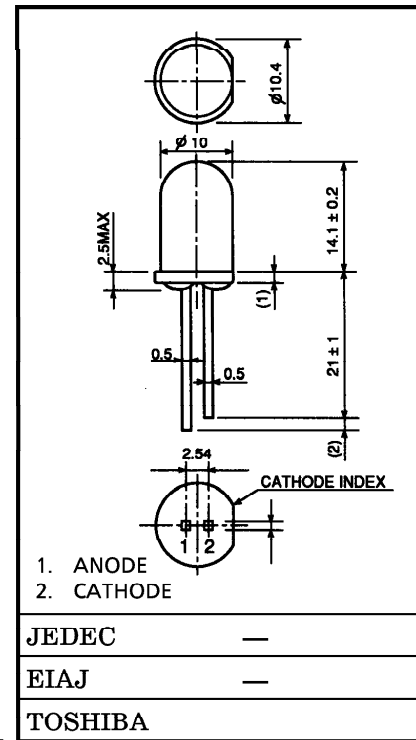
PANEL CIRCUIT INDICATOR

- 10mm DIAMETER
- InGaAlP ORANGE LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Orange 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.

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

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}	$-30 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-40 \sim 120$	$^\circ\text{C}$

Unit in mm



Weight : 1.0g

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ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	$I_F = 20\text{mA}$	—	2.1	2.5	V
Reverse Current		I_R	$V_R = 4\text{V}$	—	—	50	μA
Luminous Intensity	TLOH190P	I_V	$I_F = 20\text{mA}$ (Note)	8500	20000	—	mcd
	TLOH190P (WX)			8500	—	41400	
Peak Emission Wavelength		λ_p	$I_F = 20\text{mA}$	—	612	—	nm
Spectral Line Half Width		$\Delta\lambda$	$I_F = 20\text{mA}$	—	15	—	nm
Dominant Wavelength		λ_d	$I_F = 20\text{mA}$	—	605	—	nm

(Note) Rank selection carried out under next range respectively, although it needs $\pm 15\%$ additional for guaranteed limits.

S : 10000-20000mcd, X : 18000-36000mcd, Y : 32000-64000mcd.

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.

