TOSHIBA LED LAMP INGAA P ORANGE LIGHT EMISSION

T L O H 1 9 0 P

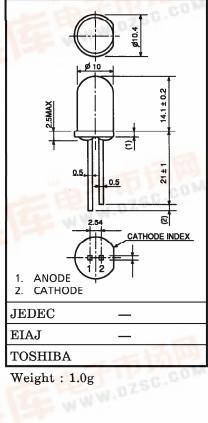
PANEL CIRCUIT INDICATOR

- 10mm DIAMETER
- InGaAlP ORANGE LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Orange Light Emission Recommended Forward Current: IF=1~20mA (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 ($Ta = 25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	$I_{\mathbf{F}}$	50	mA
Reverse Voltage	v_{R}	4	V
Power Dissipation	$P_{\mathbf{D}}$	125	mW
Operating Temperature Range	$T_{ m opr}$	-30~85	°C
Storage Temperature Range	$\mathrm{T}_{\mathrm{stg}}$	-40~120	°C

Unit in mm



Weight: 1.0g

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TOSHIBA TLOH190P

ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHAR	ACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Vo	ltage	$ m V_{ m F}$	$I_{\mathbf{F}} = 20 \text{mA}$	_	2.1	2.5	V
Reverse Cu	rrent	$I_{\mathbf{R}}$	$V_R=4V$	_	_	50	μ A
Luminous	TLOH190P	$I_{ m V}$	I _F =20mA (Note)	8500	20000	_	mcd
Intensity	TLOH190P (WX)			8500	_	41400	
Peak Emission Wavelength		$\lambda_{\mathbf{p}}$	I _F =20mA		612	_	nm
Spectral Line Half Width		Δλ	$I_{ m F}$ = 20mA		15		nm
Dominant Wavelength		$\lambda_{\mathbf{d}}$	I _F =20mA	_	605	_	nm

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

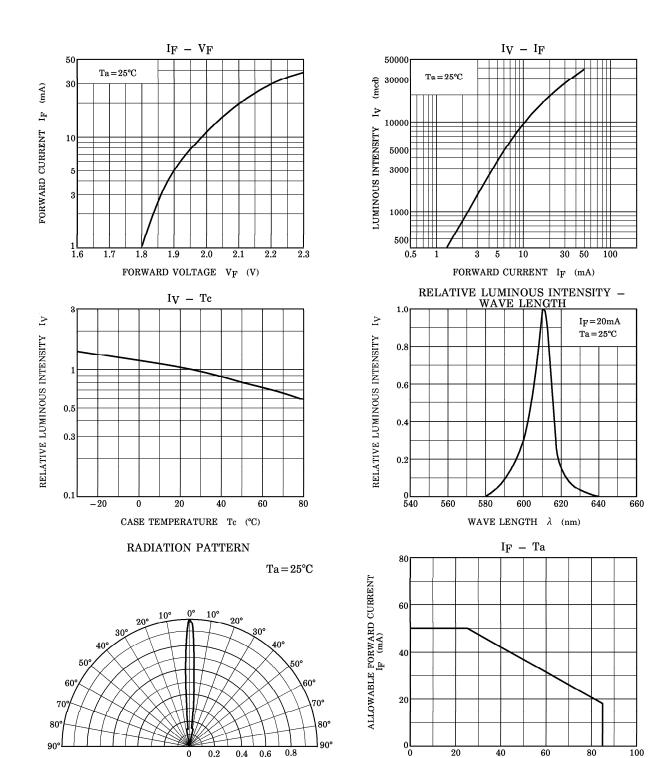
 $S:10000\text{-}20000\text{mcd},\ X:18000\text{-}36000\text{mcd},\ Y:32000\text{-}64000\text{mcd}.$

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.

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AMBIENT TEMPERATURE Ta (°C)