

TENTATIVE

TOSHIBA LED LAMP InGaAlP ORANGE LIGHT EMISSION

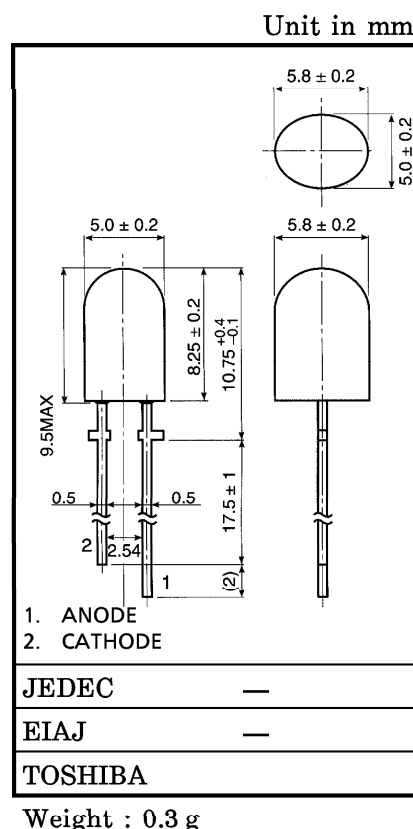
TLOU248

PANEL CIRCUIT INDICATOR

- InGaAlP ORANGE LED
- Elliptical Lens : Colored Transparent Lens
- Wide Radiation
- Low Drive Current, High Intensity Orange Light Emission
- Plastic Molded Colored Transparent Lens Provides for High Contrast of ON-OFF Ratio.
- Fast Response Time, Capable of Pulse Operation.
- APPLICATIONS : Suitable for Outdoor Message Signboard, Full Color Panel, Backlight.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	I_F	30	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	72	mW
Operating Temperature Range	T_{opr}	-30~85	°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	$I_F = 20 \text{ mA}$	—	2.0	2.4	V
Reverse Current	I_R	$V_R = 4 \text{ V}$	—	—	50	μA
Luminous Intensity	I_V	$I_F = 20 \text{ mA}$ (Note)	85	450	—	mcd
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) : Lamps are classified into the following ranks according to their luminous intensity.
Measurement tolerance for each limit is $\pm 15\%$.

N : 100~200 mcd, P : 180~360 mcd, Q : 320~640 mcd

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PRECAUTION

Please be careful of the followings

- Soldering temperature : 260°C max Soldering time : 3 s max
(Soldering portion of lead : below the lead stopper)
- If the lead is formed, the lead should be formed up to 5 mm 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.

