

TOSHIBA LED LAMP InGaAlP ORANGE LIGHT EMISSION

TLOE260A

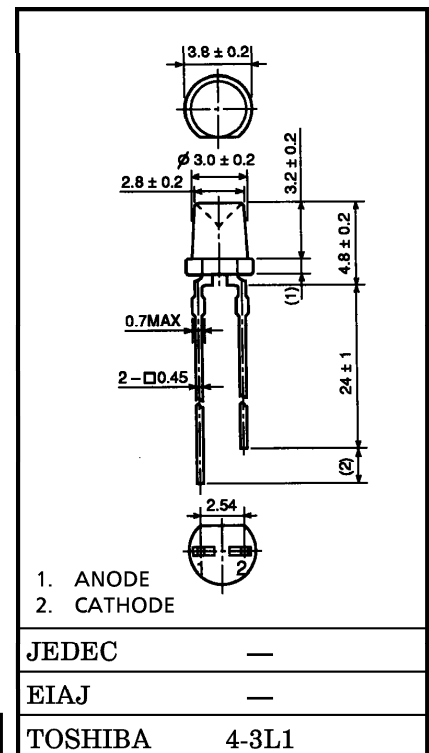
PANEL CIRCUIT INDICATOR

- 3.0 mm DIAMETER
- InGaAlP ORANGE LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Orange Light Emission
Recommended Forward Current : $I_F = 15 \sim 20$ mA (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- High Power Luminous Intensity
- Wide Radiation Pattern.
- APPLICATIONS : Suitable for Backlighting.

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 : 0.12 g

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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Forward Voltage		V_F	$I_F = 20 \text{ mA}$	—	1.95	2.4	V
Reverse Current		I_R	$V_R = 4 \text{ V}$	—	—	50	μA
Luminous Intensity	TLOE260A	I_V	$I_F = 20 \text{ mA}$ (Note)	15.3	70	—	mcd
	TLOE260A (LM)			27.2	—	129	
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 $\pm 15\%$.

K : 18-36 mcd, L : 32-64 mcd, M : 56-112 mcd.

PRECAUTION

Please be careful of the followings

- Soldering temperature : 260°C max Soldering time : 3 s max
(Soldering portion of lead : up to 2 mm 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.

