

TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

TLGD245P

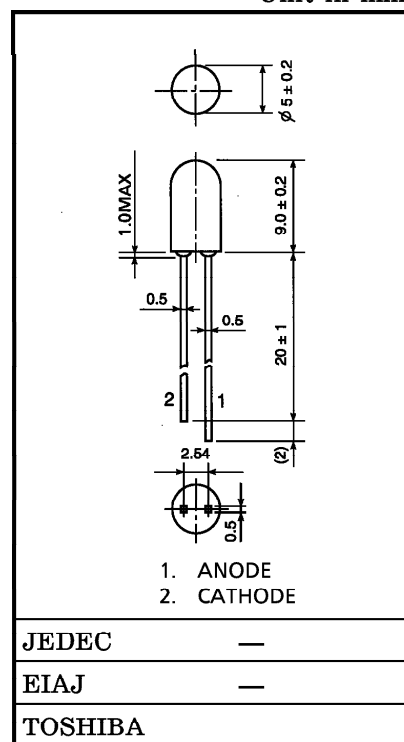
PANEL CIRCUIT INDICATOR

Unit in mm

- 5mm DIAMETER (T1-3 / 4) FRANGELESS PACKAGE
- All Plastic Mold Type Colorless Clear Lens
- Low Drive Current, High Intensity Green Light Emission.
Recommended Forward Current : $I_F = 15 \sim 20\text{mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- High Power Luminous Intensity Suitable for Outdoor Message Signboards.
- Without stand-offs

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I_F	40	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	120	mW
Operating Temperature Range	T_{opr}	$-20 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-30 \sim 100$	$^\circ\text{C}$



JEDEC —

EIAJ —

TOSHIBA

Weight : 0.31g

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ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	$I_F = 20\text{mA}$	—	2.15	2.8	V
Reverse Current		I_R	$V_R = 4\text{V}$	—	—	5	μA
Luminous	TLGD245P	I_V	$I_F = 20\text{mA}$ (Note)	153	300	—	mcd
Intensity	TLGD245P (PQ)			153	—	736	
Peak Emission Wave Length		λ_p	$I_F = 20\text{mA}$	—	567	—	nm
Spectral Line Half Width		$\Delta\lambda$	$I_F = 20\text{mA}$	—	25	—	nm

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

P : 180-360mcd Q : 320-640mcd

Each rank products is classified by package unit, and (PQ) includes P and Q.

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.

