

TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

TLGD189

PANEL CIRCUIT INDICATOR

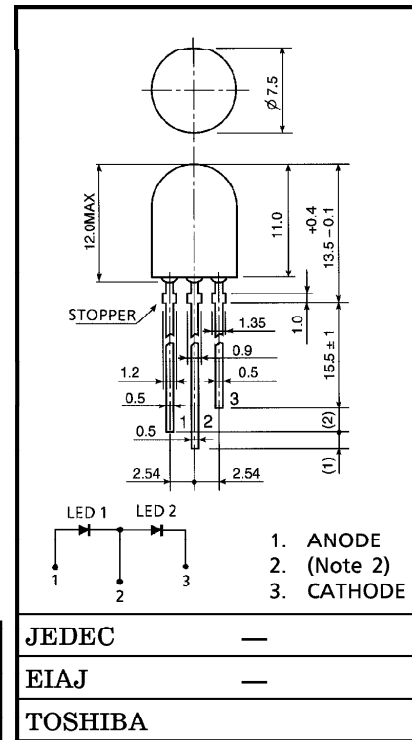
- 7.5mm DIAMETER
- 2 Chip Series Connection
- All Plastic Mold Type Colorless Clear Lens
- Low Drive Current, High Intensity Green Light Emission
Recommended Forward Current : $I_F = 15 \sim 20\text{mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- High Power Luminous Intensity

Suitable for Outdoor Massage Signboards.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I_F	30	mA
Reverse Voltage	V_R	8	V
Power Dissipation	P_D	150	mW
Operating Temperature Range	T_{opr}	$-30 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-40 \sim 100$	$^\circ\text{C}$

Unit in mm



Weight : 0.67g

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ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	$I_F = 20\text{mA}$	—	4.3	5.4	V
Reverse Current		I_R	$V_R = 8\text{V}$	—	—	5	μA
Luminous	TLGD189	I_V	$I_F = 20\text{mA}$ (Note 1)	85.0	200	—	mcd
Intensity	TLGD189 (NP)			85.0	—	414	
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 1) Rank selection carried out under next standard range respectively, although it needs $\pm 15\%$ additional for guaranteed limits.

N : 100-200mcd P : 180-360mcd

Each rank products is classified by package unit, and (NP) includes N and P.

(Note 2) Cathode of LED1 and anode of LED2 are in common (pin number 2).
Please be careful to use this pin.

PRECAUTION

Please be careful of the followings.

- Soldering temperature : 260°C MAX. Soldering time : 3s MAX.
(Soldering portion of lead : below the lead stopper)
- 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.

