

TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

TLGC190P, TLGC191P

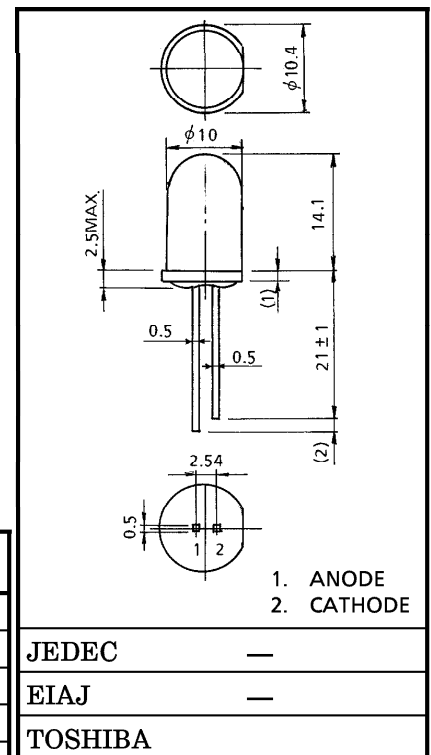
PANEL CIRCUIT INDICATOR

Unit in mm

- Excellent Bright Green
TLGC190P : Colorless Clear Lens
TLGC191P : Milky Diffused Lens
- Low Drive Current, Practical Brightness are Achieved
Roughly : 0.5mA for Indoor Application
20mA for Outdoor Application
- Plastic Molded Colorless Clear Lens, Provides for High Contrast of ON-OFF Ratio.
- Without stand-offs

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	I_F	40	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	125	mW
Operating Temperature Range	T_{opr}	$-20 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-30 \sim 100$	$^\circ\text{C}$



Weight : 1.0g

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	$V_R = 4\text{V}$	—	—	100	μA
Luminous Intensity	TLGC190P	I_V	$I_F = 20\text{mA}$ (Note)	272	700	—	mcd
	TLGC190P (QR)			272	—	1290	
	TLGC190P (RS)			476	—	2300	
	TLGC191P			47.6	180	—	
	TLGC191P (MN)			47.6	—	230	
	TLGC191P (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) Rank selection carried out under next standard range respectively, although it needs $\pm 15\%$ sdditionary for guaranteed limits.

M : 56~112mcd, N : 100~200mcd, P : 180~360mcd,

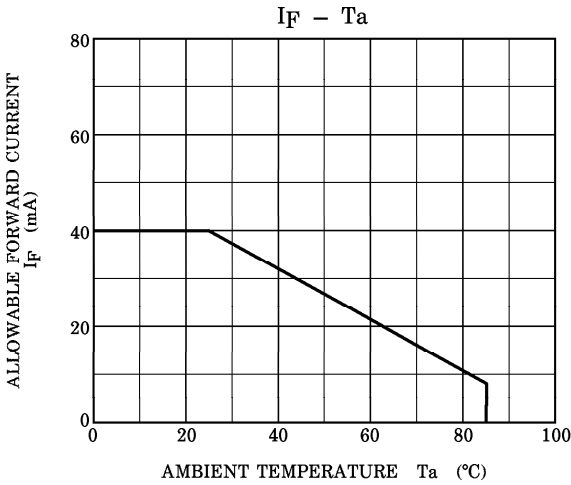
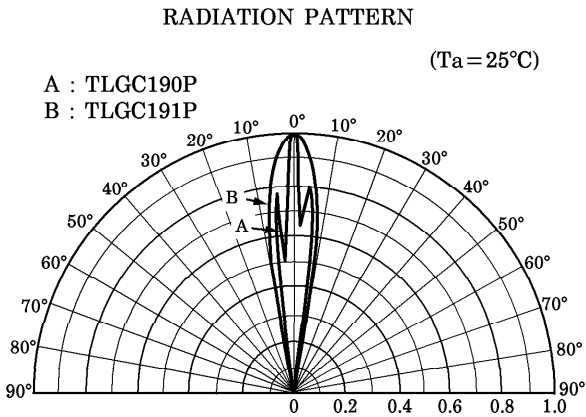
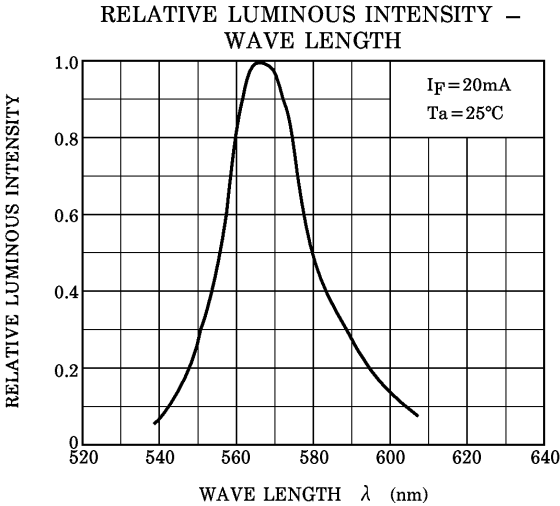
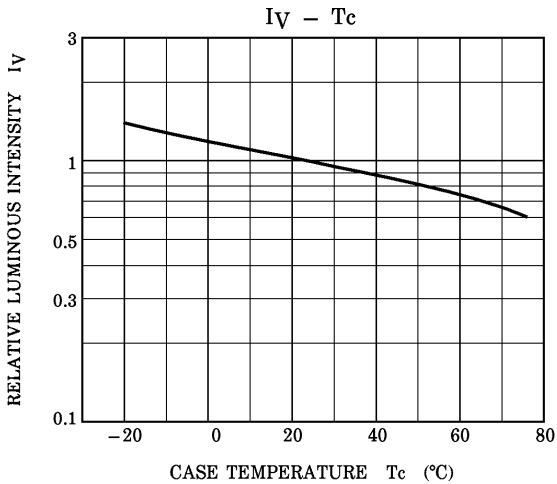
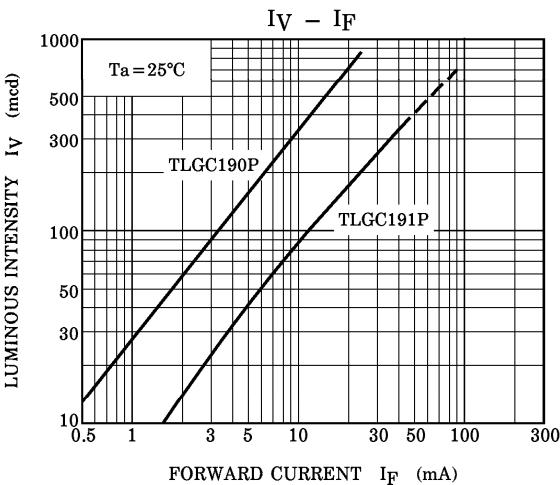
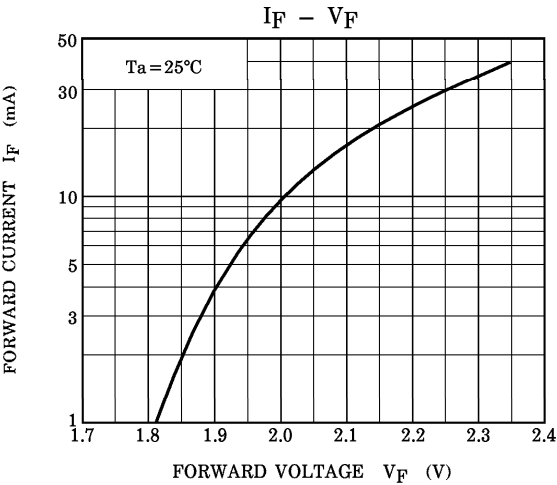
Q : 320~640mcd, R : 560~1120mcd, S : 1000~2000mcd

Each rank products is classified by package unit, (MN) includes M and N, (NP) includes N and P, (QR) includes Q and R and (RS) includes R aud S.

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.



RESTRICTIONS ON PRODUCT USE

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