

TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

# TLGC190P, TLGC191P

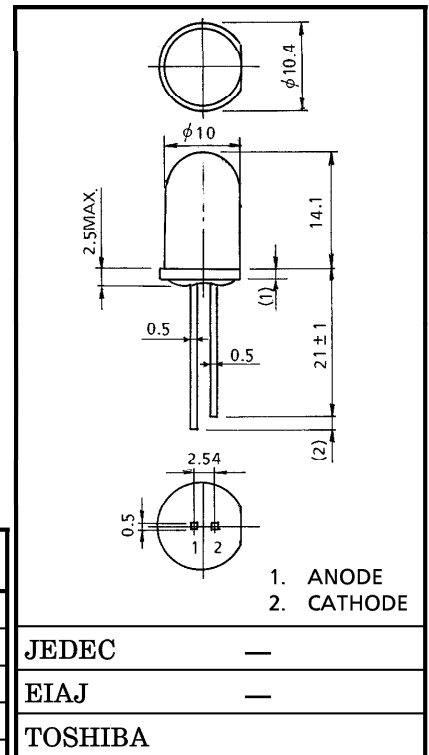
PANEL CIRCUIT INDICATOR

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 (Ta = 25°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	$T_{opr}$	-20~85	°C
Storage Temperature Range	$T_{stg}$	-30~100	°C



JEDEC	—
EIAJ	—
TOSHIBA	

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	$\mu\text{A}$
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		$\lambda_p$	$I_F = 20\text{mA}$	—	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,

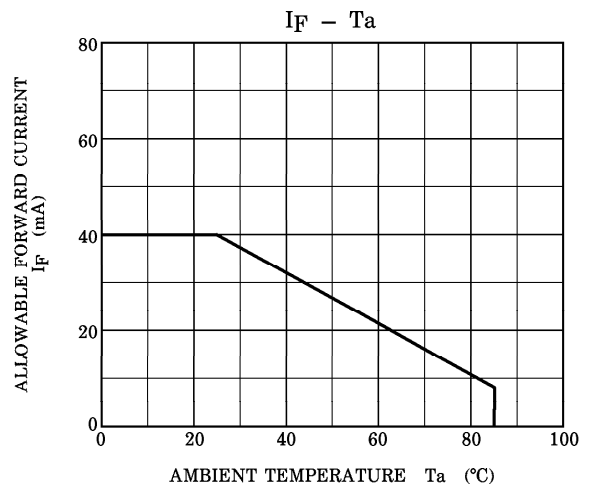
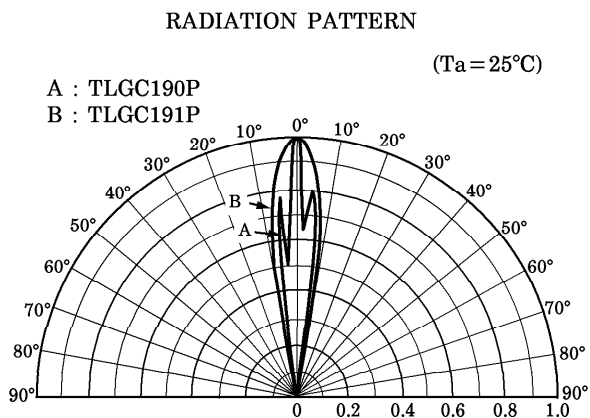
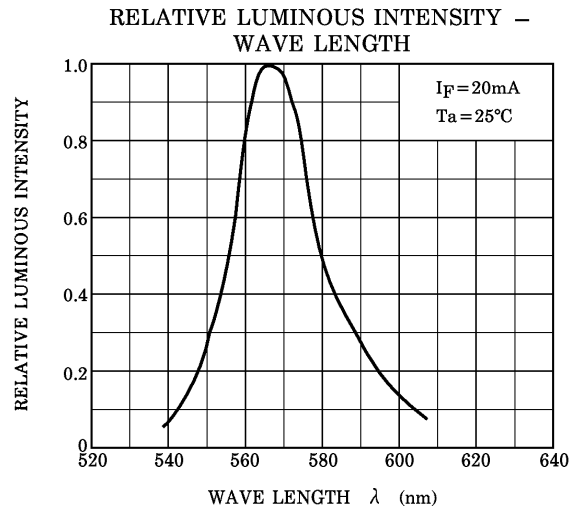
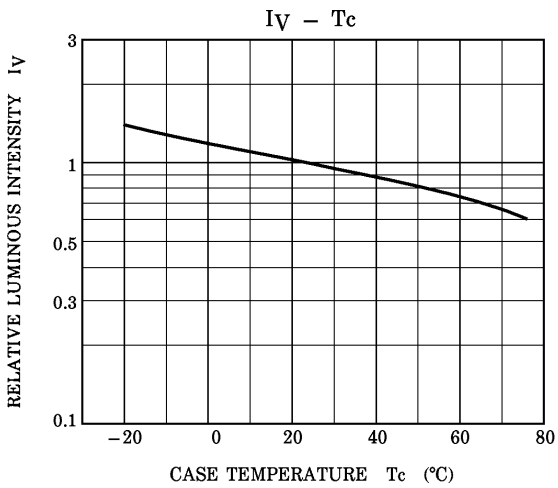
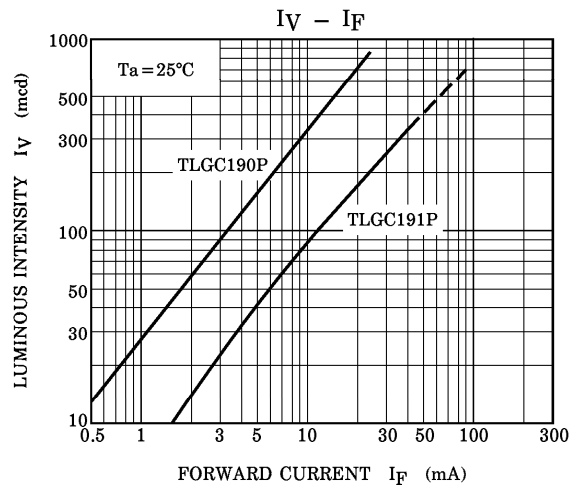
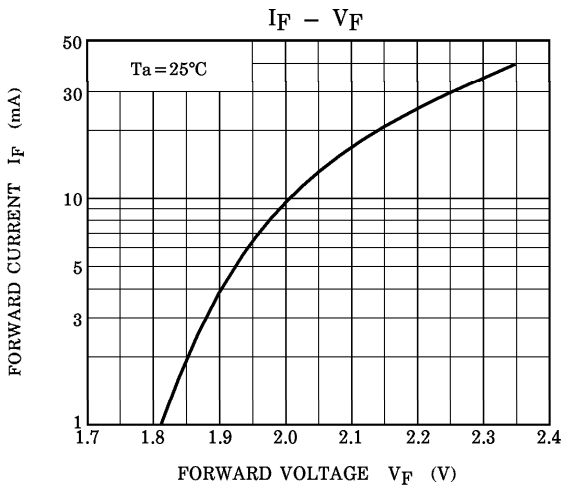
Q : 320~640mcd, R : 560~1120mcd, S : 1000~2000mcd

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.



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