TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

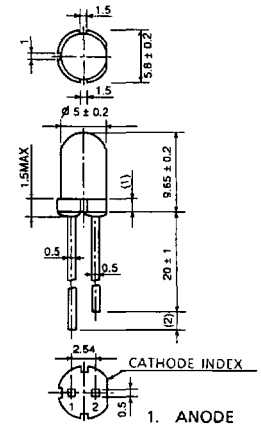
TLGC180AP

PANEL CIRCUIT INDICATOR

Unit in mm

- Striking Bright Green
- All Plastic Mold Type Colorless Clear Lens
- Low Drive Current, High Intensity Green Light Emission.

  Recommended Forward Current : I_F=15~20mA (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- Without stand-offs



1. ANODE
2. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	4-6J1

MAXIMUM RATINGS (Ta = 25°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}	−20~85	°C
Storage Temperature Range	T_{stg}	−30~100	°C

ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	I_F=20mA	—	2.15	2.8	V
Reverse Current		I_R	V_R=4V	—	—	5	μA
Luminous Intensity	TLGC180AP	I_V	I_F=20mA (Note)	85	300	—	mcd
	TLGC180AP (NP)			85	—	414	
	TLGC180AP (PQ)			153	—	736	
Peak Emission Wave Length		λ_p	I_F=20mA	—	567	—	nm
Spectral Line Half Width		$\Delta\lambda$	I_F=20mA	—	25	—	nm

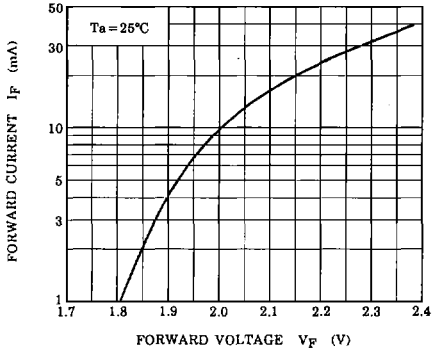
(Note) Rank selection carried out under next standard range respectively, although it needs ±15% additionary for guaranteed limits.
N : 100~200mcd P : 180~360mcd Q : 320~640mcd
Each rank products is classified by package unit, and (NP) includes N and P, (PQ) includes P and Q.

PRECAUTION

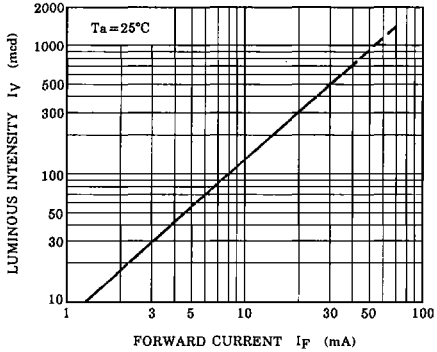
Please be careful of the followings.

- 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.

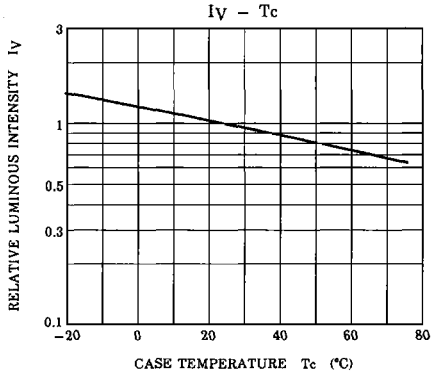
$I_F - V_F$



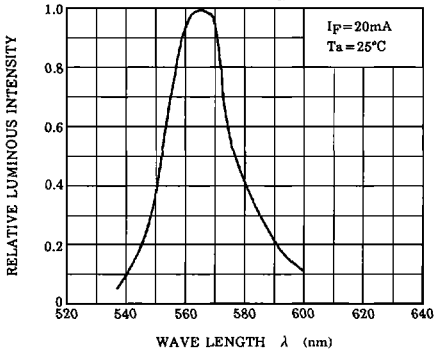
$I_V - I_F$



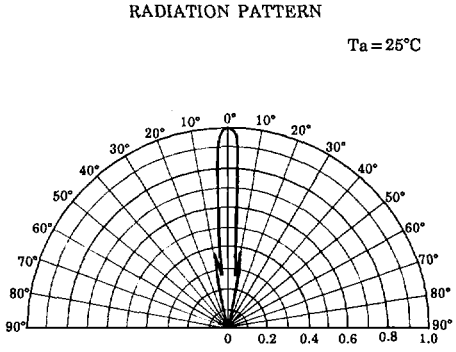
$I_V - T_c$



RELATIVE LUMINOUS INTENSITY – WAVE LENGTH



RADIATION PATTERN



$I_F - Ta$