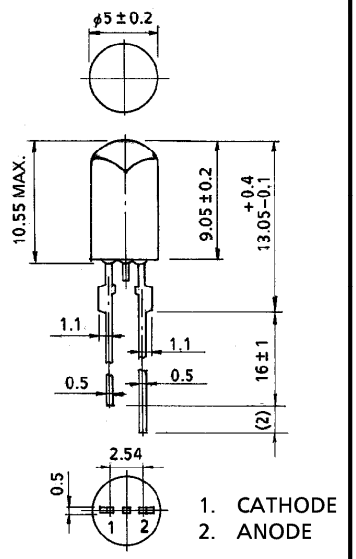
TOSHIBA LED LAMP GaP GREEN LIGHT EMISSION

TLGC175

2 CHIP LED LAMP FOR MESSAGE BOARD

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	

Weight : 0.35g

- 2 Chip Series Connection
- All Plastic Mold Type : Clear Transparent 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.
- Wide Radiation-Suitable for Message Board
  (±30deg : //, ±15deg : ⊥)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	I_F	30	mA
Reverse Voltage	V_R	8	V
Power Dissipation	P_D	120	mW
Operating Temperature Range	T_{opr}	−30~85	°C
Storage Temperature Range	T_{stg}	−40~100	°C

ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

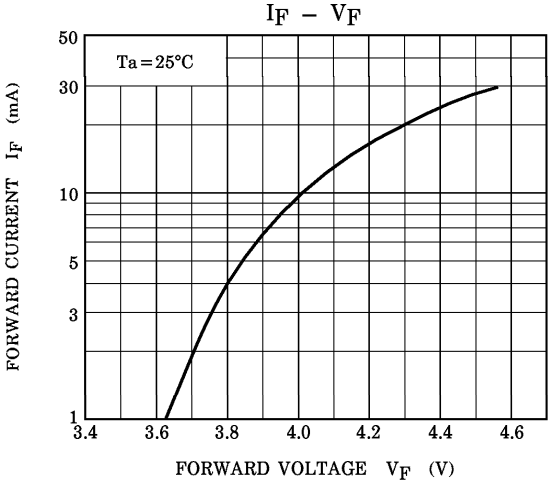
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	I_F = 20mA	—	4.3	5.4	V
Reverse Current	I_R	V_R = 8V	—	—	5	μA
Luminous Intensity	I_V	I_F = 20mA	85	200	—	mcd
Peak Emission Wave Length	λ_p	I_F = 20mA	—	567	—	nm
Spectral Line Half Width	$\Delta\lambda$	I_F = 20mA	—	25	—	nm

PRECAUTION

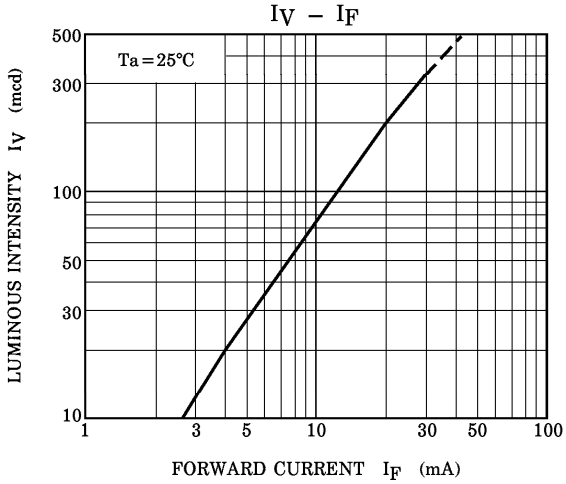
Please be careful of the followings

- 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 below the Lead Stopper without forming stress to the resin. Soldering should be performed after lead forming.

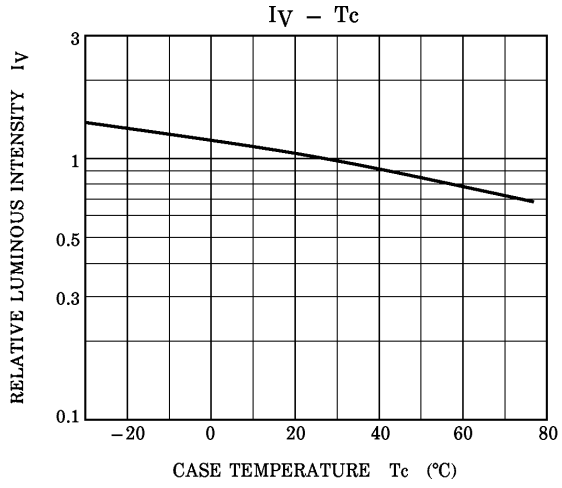
$I_F - V_F$



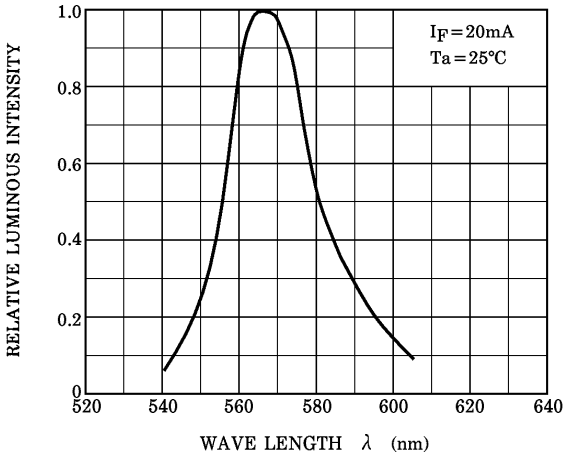
$I_V - I_F$



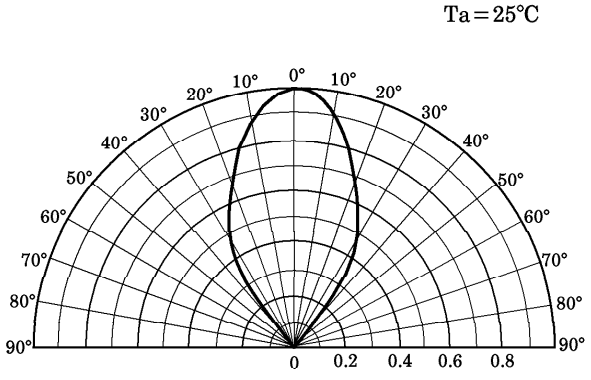
$I_V - Tc$



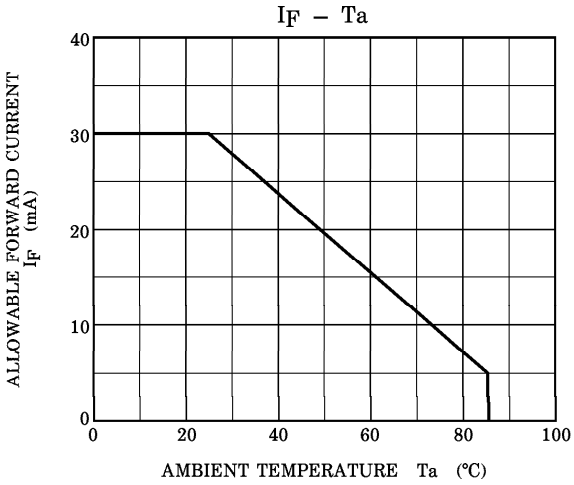
RELATIVE LUMINOUS INTENSITY − WAVE LENGTH



RADIATION PATTERN



$I_F - Ta$



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