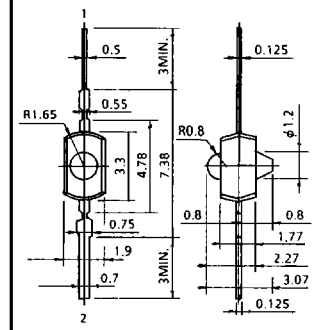
TOSHIBA LED LAMP

TLG121, TLG122, TLR121, TLR122, TLUR121, TLUR122, TLY121, TLY122

PANEL CIRCUIT INDICATOR

Unit in mm

- All Plastic Mold Type
  TL□121 : Colorless Transparent Lens
  TL□122 : Colored Transparent Lens
- Low Drive Current, High Intensity Light Emission.
  Recommended Forward Current: I_F=10~15mA (DC)
- All Plastic Molded Lens, Provides an Excellent Point Source.
- Fast Response Time, Capable of Pulse Operation.



TLUR121, TLUR122	ANOTHER TYPE
1. CATHODE	1. ANODE
2. ANODE	2. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	4-2A1A

Weight : 0.03g

MATELIALS

PRODUCT NAME	MATERIALS	LIGHT EMITTING COLOR
TLG121/TLG122	GaP	Green
TLY121/TLY122	GaAsP	Yellow
TLUR121/TLUR122	GaAℓAs	Red
TLR121/TLR122	GaP	

MAXIMUM RATINGS (Ta = 25°C)

PRODUCT NAME	FORWARD CURRENT I_F (mA)	REVERSE VOLTAGE V_R (V)	POWER DISSIPATION P_D (mW)	OPERATING TEMPERATURE RANGE T_{opr} (°C)	STORAGE TEMPERATURE RANGE T_{stg} (°C)
TLG121/TLG122	20	4	60	−20~75	−30~85
TLY121/TLY122	20	4	56	−20~75	−30~85
TLUR121/TLUR122	25	4	55	−20~75	−30~85
TLR121/TLR122	15	4	60	−20~75	−30~85

ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)
121 SERIES (Colorless transparent lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I_V			FORWARD VOLTAGE V_F			REVERSE CURRENT I_R	
	λ_p	$\Delta\lambda$	I_F	MIN.	TYP.	I_F	TYP.	MAX.	I_F	MAX.	V_R
TLG121	565	25	20	0.5	3.0	20	2.15	2.6	20	5	4
TLY121	585	32	10	0.5	1.8	10	2.05	2.8	20	100	4
TLUR121	660	25	10	1.0	5.0	10	1.75	2.2	20	100	4
TLR121	700	100	10	0.4	1.5	10	2.15	2.6	15	5	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

122 SERIES (Colored transparent lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I_V			FORWARD VOLTAGE V_F			REVERSE CURRENT I_R	
	λ_p	$\Delta\lambda$	I_F	MIN.	TYP.	I_F	TYP.	MAX.	I_F	MAX.	V_R
TLG122	565	25	20	0.5	2.0	20	2.15	2.6	20	5	4
TLY122	585	32	10	0.4	1.4	10	2.05	2.8	20	100	4
TLUR122	660	25	10	0.8	4.5	10	1.75	2.2	20	100	4
TLR122	700	100	10	0.3	1.2	10	2.15	2.6	15	5	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

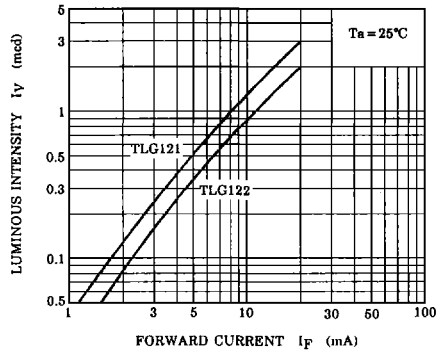
PRECAUTION

Please be careful of the followings.

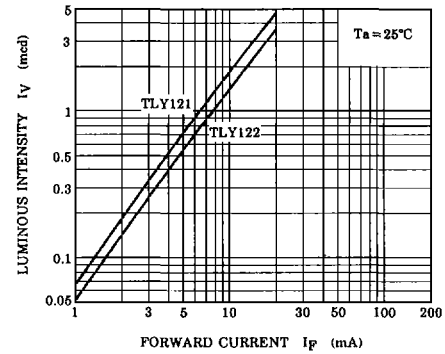
- Soldering temperature : 260°C MAX. Soldering time : 3s MAX.
  (Soldering portion of lead : up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed up to 0.8mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.

$I_V - I_F$

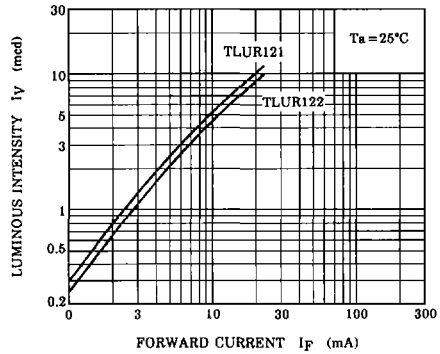
TLG121 / 122



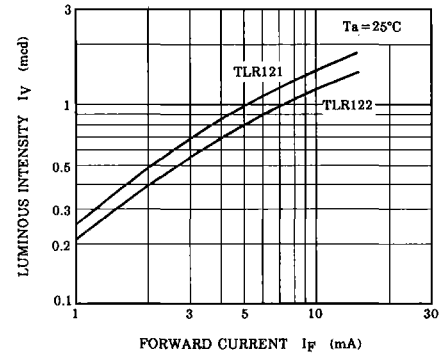
TLY121 / 122



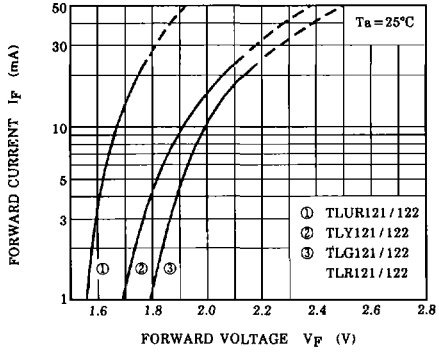
TLUR121 / 122



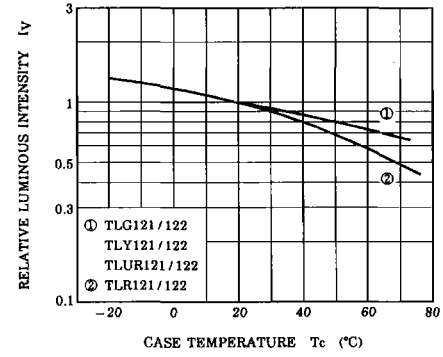
TLR121 / 122



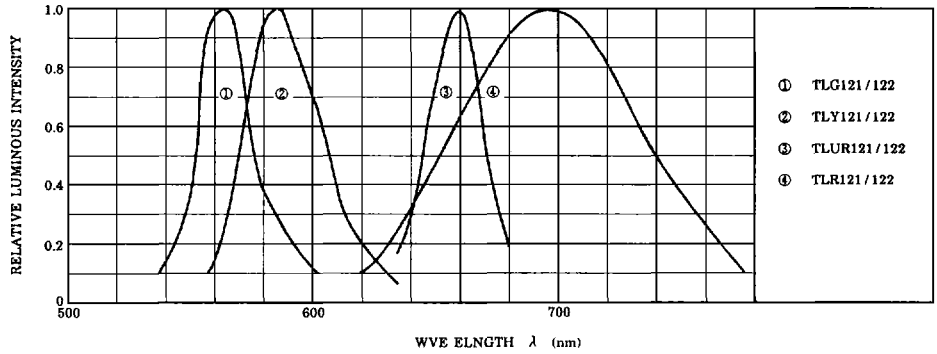
$I_F - V_F$



$I_V - T_c$

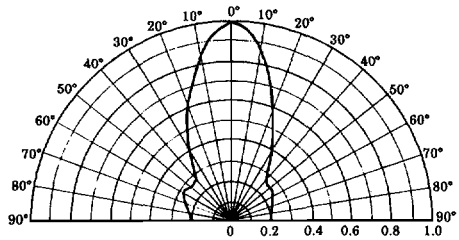


RELATIVE LUMINOUS INTENSITY – WAVE LENGTH



RADIATION PATTERN

Ta = 25°C



I_F – Ta