

## TOSHIBA LED LAMP

### TLG263P, TLO263P, TLR263P, TLS263P, TLY263P

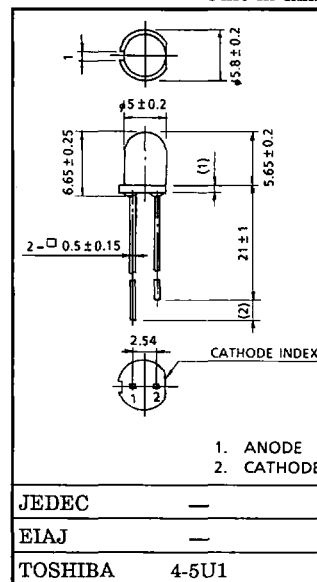
#### BACKLIGHTING LAMP

Unit in mm

- All Plastic Mold Type : Colored Transparent Lens
- Wide Radiation Pattern : Suitable for Backlighting  
Half Angle =  $\pm 65$  deg. (Typ.) (Limits for 50% of  $I_y$ )  
Recommend Forward Current :  $I_F = 10 \sim 15$  mA (DC)
- Fast Response Time, Capable of Pulse Operation.
- Without stand-offs

#### MATERIALS

PRODUCT NAME	ITEM	MATERIALS	LIGHT EMITTING COLOR
TLG263P		GaP	Green
TLY263P		GaAsP	Yellow
TLO263P		GaAsP	Orange
TLS263P		GaAsP	Red
TLR263P		GaP	



Weight : 0.25g

#### MAXIMUM RATINGS (Ta = 25°C)

PRODUCT NAME	ITEM	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)
TLG263P		25	4	70	-20~75	-30~100
TLY263P		25	4	70	-20~75	-30~100
TLO263P		25	4	70	-20~75	-30~100
TLS263P		25	4	70	-20~75	-30~100
TLR263P		20	4	56	-20~75	-30~100

961001EAC1

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
- Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic garbage.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

## ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I <sub>v</sub>			FORWARD VOLTAGE V <sub>F</sub>			REVERSE CURRENT I <sub>R</sub>	
	λ <sub>p</sub>	Δλ	I <sub>F</sub>	MIN.	TYP.	I <sub>F</sub>	TYP.	MAX.	I <sub>F</sub>	MAX.	V <sub>R</sub>
TLG263P	565	25	15	2.0	8.0	15	2.15	2.8	20	100	4
TLY263P	585	32	15	1.8	7.0	15	2.05	2.8	20	100	4
TLO263P	610	35	15	1.6	6.5	15	2.05	2.8	20	100	4
TLS263P	635	40	15	1.8	7.0	15	2.05	2.8	20	100	4
TLR263P	700	100	15	0.7	2.5	15	2.15	2.8	20	100	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 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.

$I_V - I_F$

