

(TLG123A)

PANEL CIRCUIT INDICATOR

- All Plastic Mold Type
 TL□123 : Colored Transparent Lens
 TL□124 : Colored Diffused Lens
- Low Drive Current, High Intensity Light Emission.
 Recommended Forward Current : $I_F = 5 \sim 10 \text{mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.

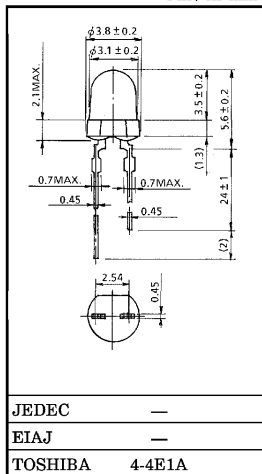
MATERIALS

PRODUCT NAME	Materials	Light emitting color
TLG123A / TLG124A	GaP	Green
TLY123 / TLY124	GaAsP	Yellow
TLO123 / TLO124	GaAsP	Orange
TLS123 / TLS124	GaAsP	Red
TLUR123 / TLUR124	GaAlAs	
TLR123 / TLR124	GaP	

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

PRODUCT NAME	Forward Current I_F (mA)	Reverse Voltage V_R (V)	Power Dissipation P_D (mW)	Operating Temperature Range T_{opr} ($^\circ\text{C}$)	Storage Temperature Range T_{stg} ($^\circ\text{C}$)
TLG123A / TLG124A	25	4	70	$-20 \sim 75$	$-30 \sim 100$
TLY123 / TLY124	25	4	70	$-20 \sim 75$	$-30 \sim 100$
TLO123 / TLO124	25	4	70	$-20 \sim 75$	$-30 \sim 100$
TLS123 / TLS124	25	4	70	$-20 \sim 75$	$-30 \sim 100$
TLUR123 / TLUR124	25	4	55	$-20 \sim 75$	$-30 \sim 100$
TLR123 / TLR124	20	4	60	$-20 \sim 75$	$-30 \sim 100$

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	4-4E1A

Weight : 0.14g

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ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)
 123A 123 SERIES (Colored Teapant Transparent Lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I _V			FORWARD VOLTAGE V _F			REVERSE CURRENT I _R	
	λ _p	Δλ	I _F	MIN.	TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R
TLG123A	565	25	10	2.5	10	10	2.15	2.8	20	5	4
TLY123	585	32	10	0.5	5.0	10	2.05	2.8	20	100	4
TLO123	610	35	10	0.5	5.0	10	2.05	2.8	20	100	4
TLS123	635	40	15	4.0	15	15	2.05	2.8	20	100	4
TLUR123	660	25	20	5.0	20	20	1.75	2.2	20	100	4
TLR123	700	100	10	0.5	3.5	10	2.15	2.8	20	5	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

124A 124 SERIES (Colored Lusterless Lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I _V			FORWARD VOLTAGE V _F			REVERSE CURRENT I _R	
	λ _p	Δλ	I _F	MIN.	TYP.	I _F	TYP.	MAX.	I _F	MAX.	V _R
TLG124A	565	25	10	0.8	5.0	10	2.15	2.8	20	5	4
TLY124	585	32	10	0.4	4.0	10	2.05	2.8	20	100	4
TLO124	610	35	10	0.4	4.0	10	2.05	2.8	20	100	4
TLS124	635	40	15	2.5	10	15	2.05	2.8	20	100	4
TLUR124	660	25	20	3.0	10	20	1.75	2.2	20	100	4
TLR124	700	100	10	0.4	2.5	10	2.15	2.8	20	5	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

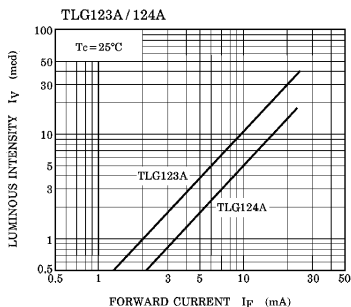
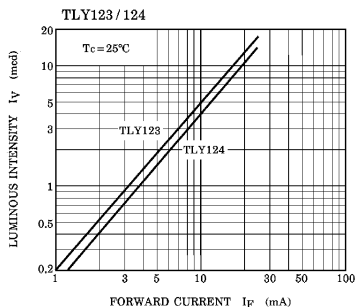
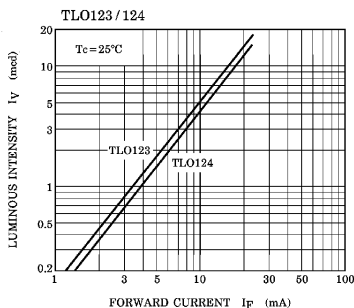
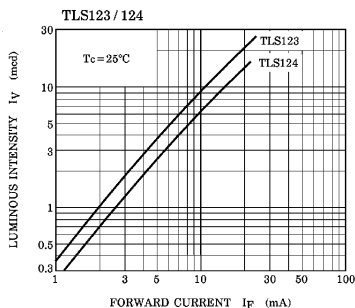
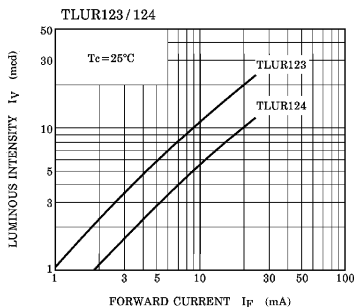
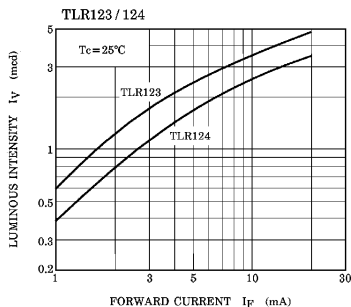
PRECAUTION

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 at distance of 5mm from the body of the device.
 Soldering shall be performed after lead forming.

(TLG123A)

$I_V - I_F$



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