

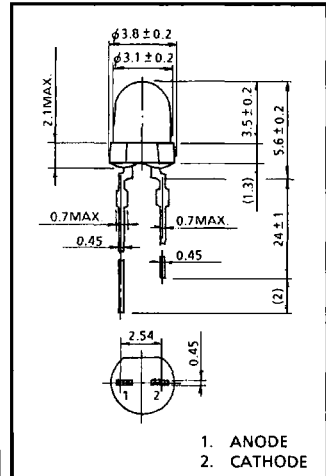
TOSHIBA LED LAMP GaAs RED LIGHT EMISSION

TLRC123, TLRC124, TLRC125

PANEL CIRCUIT INDICATOR

Unit in mm

- STRIKING-BRIGHT
- All Plastic Mold Type
 TLRC123 : Red Transparent Lens
 TLRC124 : Red Lusterless Lens
 TLRC125 : Colorless Clear Lens
- Low Drive Current, High Intensity Red Light Emission.
 Recommended Forward Current : $I_F = 15 \sim 20\text{mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.



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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I_F	25	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	55	mW
Operating Temperature Range	T_{opr}	$-20 \sim 75$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-30 \sim 100$	$^\circ\text{C}$

JEDEC	—
EIAJ	—
TOSHIBA	4-4E1A

ELECTRO-OPTICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 20\text{mA}$	—	1.75	2.2	V
Reverse Current	I_R	$V_R = 4\text{V}$	—	—	100	μA
Luminous Intensity	TLRC123	$I_F = 20\text{mA}$	15.3	40	—	mcd
	TLRC124		8.5	25		
	TLRC125		15.3	50		
Peak Emission Wave Length	λ_p	$I_F = 20\text{mA}$	—	660	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	25	—	nm

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LUMINOUS INTENSITY SELECTION TABLE (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Luminous Intensity	TLRC123 (KL)	I _v	I _F = 20mA (Note)	15.3	—	73.6	mcd
	TLRC123 (LM)			27.2	—	129	
	TLRC124 (JK)	I _v		8.5	—	41.4	
	TLRC124 (KL)			15.3	—	73.6	
	TLRC125 (KL)	I _v		15.3	—	73.6	
	TLRC125 (LM)			27.2	—	129	

(Note) Rank selection carried out under next standard range respectively, although it needs $\pm 15\%$ additional for guaranteed limits.

J: 10~20mcd, K: 18~36mcd, L: 32~64mcd, M: 56~112mcd,

Each rank products is classified by package unit, and (JK) includes J and K, (KL) includes K and L, (LM) includes L and M.

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 leads is formed, the lead should be formed up to 5mm from the body of the device without forming stress. Soldering should be performed after lead forming.
- The TLRC series should not be used in high-temperature, high-humidity environments.

