TOSHIBA TLGE123

TOSHIBA LED LAMP INGAA P GREEN LIGHT EMISSION

TLGE123

PANEL CIRCUIT INDICATOR

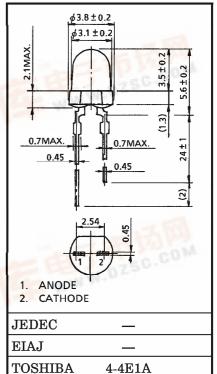
- 3 mm DIAMETER (T1-3/4)
- InGaA&P GREEN LED
- All Plastic Mold Type.
- Colored Transparent Lens
- Low Drive Current, High Intensity Green Light Emission Recommended Forward Current: IF = 15~20 mA (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.

MAXIMUM RATINGS (Ta = 25°C)

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1111 0 1111 10 1111 10 (1 u = 20 c)			
CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I _F	50	mA
Reverse Voltage	V_{R}	4	V
Power Dissipation	P_{D}	140	mW
Operating Temperature Range	$T_{ m opr}$	-30~85	°C
Storage Temperature Range	$T_{ m stg}$	-40~120	°C

Unit in mm



Weight: 0.14 g

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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.

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ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Forward Voltage	$V_{\mathbf{F}}$	$I_{ m F}=20{ m mA}$	_	2.27	2.8	V
Reverse Current	$I_{\mathbf{R}}$	$V_R = 4 V$	_	_	50	μ A
Luminous Intensity	I_{V}	$I_{\rm F} = 20 {\rm mA} ({ m Note})$	(153)	450		mcd
Peak Emission Wavelength	$\lambda_{\mathbf{p}}$	$I_{ m F}=20{ m mA}$	_	574	_	nm
Spectral Line Half Width	Δλ	$I_{ m F}=20{ m mA}$	_	14		nm
Dominant Wavelength	λd	$I_{ m F}=20{ m mA}$	_	571	_	nm

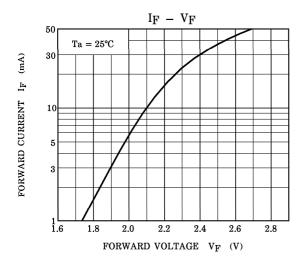
(Note): Lamps are classified into the following ranks according to their luminous intensity. Measurement tolerance for each limit is $\pm 15\%$.

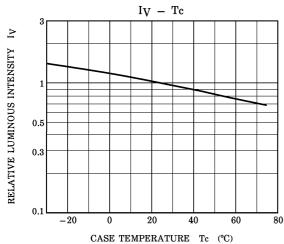
P: 180-360 mcd, Q: 320-640 mcd, R: 560-1120 mcd

PRECAUTION

Please be careful of the followings

- Soldering temperature: 260°C max Soldering time: 3 s max (Soldering portion of lead: up to 2 mm from the body of the device)
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.







 $Ta = 25^{\circ}C$

