TOSHIBA TLGE125

TENTATIVE

TOSHIBA LED LAMP INGAALP GREEN LIGHT EMISSION

T L G E 1 2 5

PANEL CIRCUIT INDICATOR

- 3 mm DIAMETER (T1-3/4)
- InGaAlP GREEN LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Green 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.
- High Power Luminous Intensity
- APPLICATIONS: Suitable for Outdoor Message Signboard, Safety equipment, etc.

Unit in mm $\phi 3.8 \pm 0.2$ 3.5 ± 0.2 0.7MAX 0.7MAX 2 ANODE 2. CATHODE **JEDEC EIAJ TOSHIBA** 4-4E1A

Weight: 0.14 g

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Forward Current (DC)	$I_{\mathbf{F}}$	50	mA	
Reverse Voltage	v_{R}	4	V	
Power Dissipation	$P_{\mathbf{D}}$	140	mW	
Operating Temperature Range	${ m T_{opr}}$	-30~85	$^{\circ}\mathrm{C}$	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~120	$^{\circ}\mathrm{C}$	

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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	$I_{ m V}$	$I_F = 20 \mathrm{mA} (\mathrm{Note})$	153	500	_	mcd
Peak Emission Wavelength	$\lambda_{\mathbf{p}}$	$I_{ m F}=20{ m mA}$	_	574		nm
Spectral Line Half Width	Δλ	$I_{ m F}=20{ m mA}$	_	11		nm
Dominant Wavelength	$^{\lambda}$ d	$I_{ m F}=20{ m mA}$	_	571	_	nm

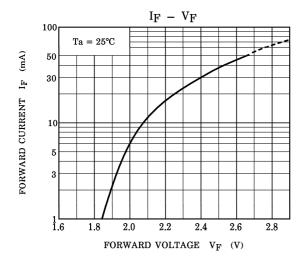
(Note): Lamps are classified into the following ranks according to their luminous intensity. Measurement tolerance for each limit is $\pm 15\%$.

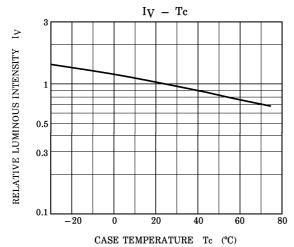
P: 180-360 mcd, Q: 320-640 mcd, R: 560-1120 mcd

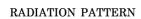
PRECAUTION

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.







 $Ta = 25^{\circ}C$

