TOSHIBA TLGE160

TENTATIVE

TOSHIBA LED LAMP INGAALP GREEN LIGHT EMISSION

TLGE160

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.

8 1. ANODE 2. CATHODE **JEDEC EIAJ TOSHIBA** 4-3E1A

Ø 3.8 ± 0.2 Ø 3.1 ± 0.2

Unit in mm

Weight: 0.31 g

MAXIMUM RATINGS (Ta = 25°C)

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

• 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	$I_{ m V}$	$I_{\mathrm{F}} = 20 \mathrm{mA} \mathrm{(Note)}$	850	2400		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	$\lambda_{\mathbf{d}}$	$I_{ m F}=20{ m mA}$	_	571	_	nm

(Note): Lamps are classified into the following ranks according to their luminous intensity.

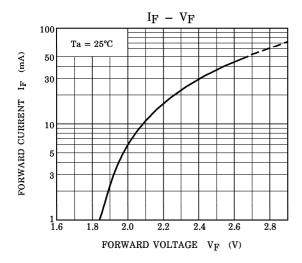
Measurement tolerance for each limit is $\pm 15\%$.

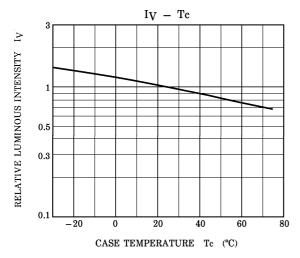
S: 1000-2000 mcd, T: 1800-3600 mcd, U: 3200-6400 mcd.

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 5mm 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.







 $Ta = 25^{\circ}C$

