TOSHIBA

TOSHIBA LED LAMP InGaA&P YELLOW LIGHT EMISSION

# **TLYH156P**

#### PANEL CIRCUIT INDICATOR

5mm DIAMETER (T1-3/4)

InGaA&P YELLOW LED

All Plastic Mold Type.

Colorless Clear Lens

Low Drive Current, High Intensity Yellow Light Emission Recommended Forward Current: IF=1~20mA (DC)

All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.

Fast Response Time, Capable of Pulse Operation.

High Power Luminous Intensity

Without stand-offs

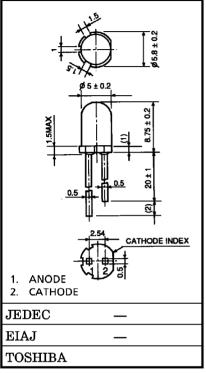
APPLICATIONS: Suitable for Outdoor Message Signboard, Safety equipment, automotive use.

### MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	$I_{\mathbf{F}}$	50	mA
Reverse Voltage	$v_{ m R}$	4	V
Power Dissipation	$P_{\mathbf{D}}$	125	mW
Operating Temperature Range	$T_{ m opr}$	-30~85	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~120	°C

Unit in mm

TLYH156P



Weight: 0.31g

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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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## ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARA	ACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Vo	ltage	$ m V_{ m F}$	$I_{ m F}\!=\!20{ m mA}$	_	2.1	2.5	V
Reverse Cur	rent	${ m I}_{ m R}$	$V_R = 4V$		_	50	$\mu$ A
Luminous	TLYH156P	I <sub>V</sub>	I <sub>F</sub> =20mA (Note)	476	1200	_	mcd
Intensity	TLYH156P (RS)			476	_	2300	
Peak Emission Wavelength		$\lambda_{\mathbf{p}}$	$I_{ m F}\!=\!20{ m mA}$	_	590	_	nm
Spectral Line Half Width		Δλ	I <sub>F</sub> =20mA	_	13	_	nm
Dominant Wavelength		$^{\lambda}\mathbf{d}$	$I_{ m F}\!=\!20{ m mA}$	_	587	_	nm

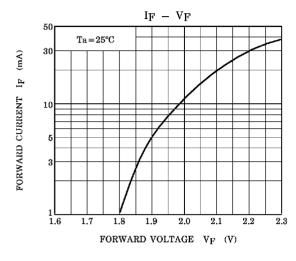
(Note) Rank selection carried out under next range respectively, although it needs  $\pm 15\%$  additionary for guaranteed limits.

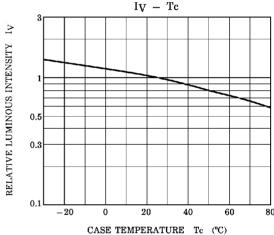
R: 560-1120mcd, S: 1000-2000mcd, T: 1800-3600mcd.

## **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 up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.





## RADIATION PATTERN

Ta = 25°C

