TOSHIBA TLRH156P

TOSHIBA LED LAMP InGaA&P RED LIGHT EMISSION

TLRH156P

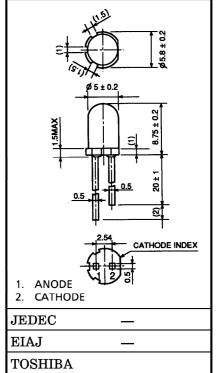
PANEL CIRCUIT INDICATOR

- 5 mm DIAMETER (T1-3/4)
- InGaAlP RED LED
- All Plastic Mold Type.
- Colorless Clear Lens
- Low Drive Current, High Intensity Red Light Emission Recommended Forward Current : $I_F = 1 \sim 20 \text{ mA}$ (DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.
- High Power Luminous Intensity
- 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)	${ m I_F}$	50	mA
Reverse Voltage	$ m V_{R}$	4	V
Power Dissipation	$P_{\mathbf{D}}$	125	mW
Operating Temperature Range	${ m T_{opr}}$	-30~85	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~120	°C

Unit in mm



Weight: 0.31 g

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta = 25°C)

CHAR	ACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Forward Vo	ltage	$ m V_{f F}$	$ m I_F = 20~mA$	_	1.9	2.5	V
Reverse Cu	rrent	${ m I}_{ m R}$	$V_{R} = 4 V$	_	_	50	μ A
Luminous	TLRH156P	I _V	$I_{\rm F}=20{ m mA}({ m Note})$	272	800	_	al
Intensity	TLRH156P (QR)			272	_	1290	mcd
Peak Emiss	ion Wavelength	$\lambda_{\mathbf{p}}$	$I_{ m F}=20~{ m mA}$	_	644	_	nm
Spectral Lir	ne Half Width	Δλ	$ m I_F=20~mA$	_	18	_	nm
Dominant V	Vavelength	$^{\lambda}\mathrm{d}$	$ m I_F=20~mA$		630	_	nm

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

Q: 320-640 mcd, R: 560-1120 mcd, S: 1000-2000 mcd.

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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.

