

InGaAlP Yellow Light Emission

Unit in mm

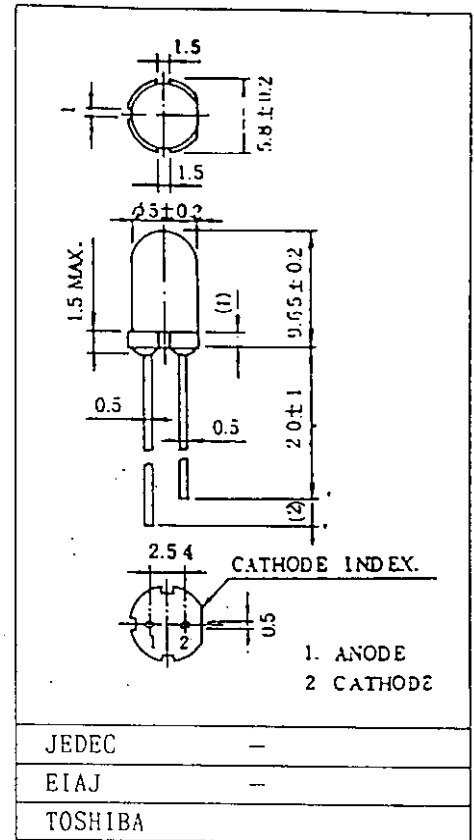
Panel Circuit Indicator

5 mm Diameter (T1-3/4)

- New Emission Material (InGaAlP) Yellow LED
- Peak Wavelength: $\lambda_p = 590 \text{ nm}$
- All Plastic Mold Type
- Colorless Clear Lens
- Low Drive Current, High Intensity Yellow 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
 - Suitable for Outdoor Message Signboard
 - Automotive use
- Straight Lead (Standard)
- High Reliability
 - $T_{stg}: -40 \sim 120^\circ\text{C}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Forward Current (DC)	I_F	30	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	75	mW
Operating Temperature Range	T_{opr}	$-30 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-40 \sim 120$	$^\circ\text{C}$



Weight : 0.31g

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TLYE180P

Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristic		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage		V_F	$I_F = 20\text{ mA}$	—	2.1	2.5	V
Reverse Current		I_R	$V_R = 4\text{ V}$	—	—	50	μA
Luminous Intensity	TLYE180P	I_V	$I_F = 20\text{ mA}$ (NOTE)	(850)	—	—	mcd
				—	—	—	
				—	—	—	
Peak Emission Wavelength		λ_p	$I_F = 20\text{ mA}$	—	590	—	nm
Spectral Line Half Width		$\Delta\lambda$	$I_F = 20\text{ mA}$	—	13	—	nm

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

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

Precaution

Please be careful of the following:

1. Soldering temperature: 260°C MAX. Soldering time: 3 sec MAX. (Soldering portion of lead: up to 2 mm from the body of the device).
2. If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress. Soldering shall be performed after lead forming.

