

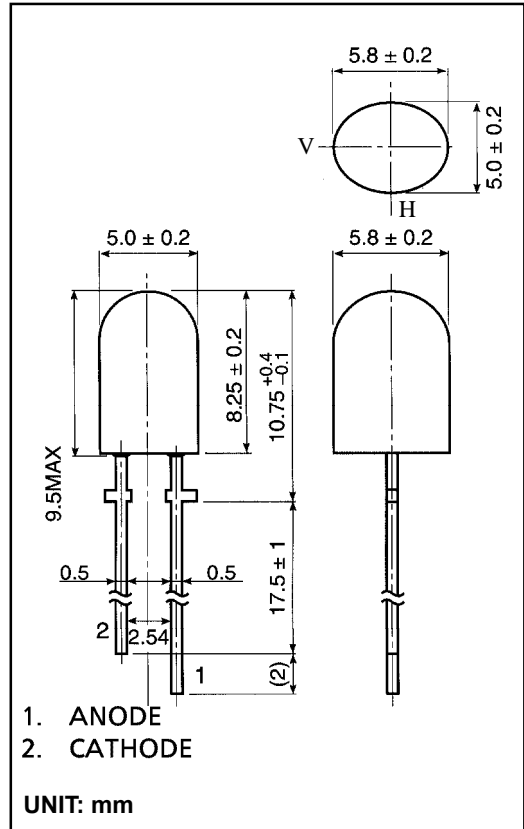
# TLYH247

## Product Features -

- InGaAlP Technology
- T-1¾ Elliptical Package
- High Intensity Yellow Light ( $\lambda_p = 590$  nm) Emission
- Water Clear Lens
- Elliptical Radiation Pattern (65° Vertical, 35° Horizontal)

### MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	$I_F$	50	mA
Reverse Voltage	$V_R$	4	V
Power Dissipation	$P_D$	125	mW
Operating Temperature	$T_{opr}$	-30 ~ 85	°C
Storage Temperature	$T_{stg}$	-40 ~ 120	°C

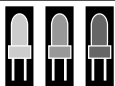


### OPTO-ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

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	$\mu\text{A}$
Luminous Intensity*	$I_V$	$I_F = 20\text{mA}$	153	350	—	mcd
Viewing Angle	$2\theta_{1/2}$	—	—	Note 1	—	°
Peak Wavelength	$\lambda_p$	$I_F = 20\text{mA}$	—	590	—	nm
Dominant Wavelength	$\lambda_d$	$I_F = 20\text{mA}$	—	587	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	13	—	nm

Note1: Elliptical Radiation Pattern 65° Vertical, 35° Horizontal

\* Luminous Ranks: (P : 180-360mcd), (Q : 320-640mcd), (R : 560-1120mcd) Upper and lower limit tolerance  $\pm 15\%$



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## TLYH247 Graphs -

