

RED**TOSHIBA T-1¾ InGaAlP Ultra Bright LED**

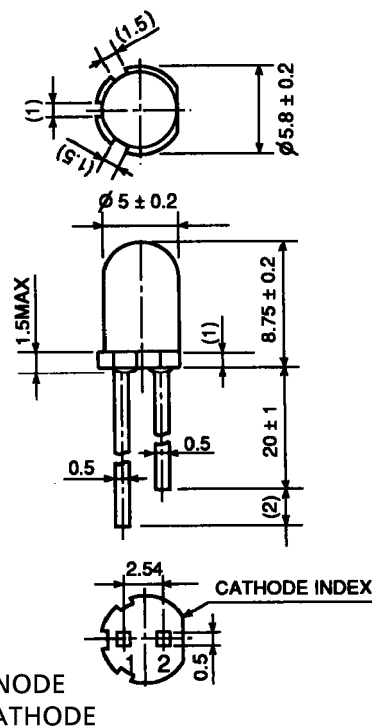
TLRE156AP

Product Features -

- InGaAlP Technology
- T-1¾ (5mm) Package
- High Intensity Red Light ($\lambda_p = 644$ nm) Emission
- Water Clear Lens

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	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ 120	$^\circ\text{C}$

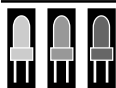


UNIT: mm

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 20\text{mA}$	—	1.85	2.4	V
Reverse Current	I_R	$V_R = 4\text{V}$	—	—	50	μA
Luminous Intensity	I_v	$I_F = 20\text{mA}$	150	400	—	mcd
Viewing Angle	$2\theta_{1/2}$	—	—	28	—	$^\circ$
Peak Wavelength	λ_p	$I_F = 20\text{mA}$	—	644	—	nm
Dominant Wavelength	λ_d	$I_F = 20\text{mA}$	—	630	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	18	—	nm

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



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All specifications subject to change.

TLRE156AP Graphs -

