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# UT188X-81-880

# 5.0MM ROUND INFRARED LAMP

## Feature

- \* HIGH RADIANT POWER
- \* RELIABLE AND RUGGEN
- \* LOWER DEGRADATION
- \* IC COMPATIBLE

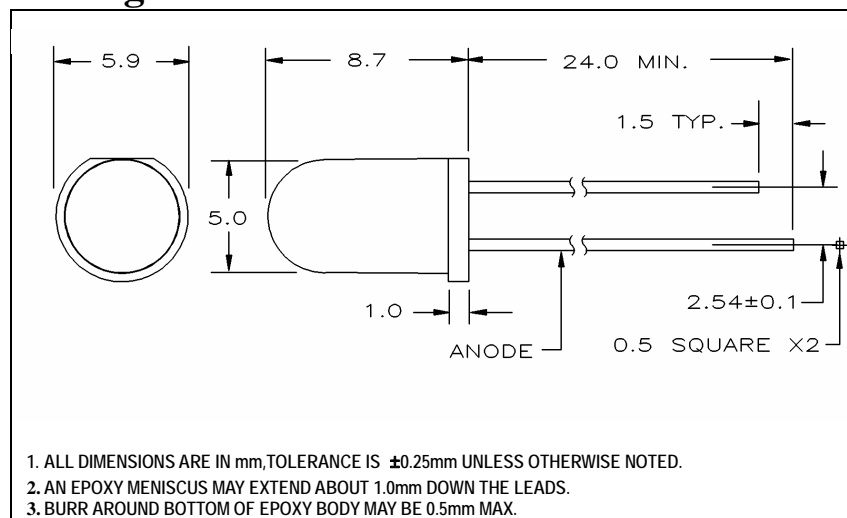
## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

REVERSE VOLTAGE ( $<100\mu\text{A}$ ).....	5.0 V
D.C. FORWARD CURRENT.....	100 mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH).....	200 mA
OPERATING TEMPERATURE RANGE.....	$-25^\circ\text{C}$ TO $+85^\circ\text{C}$
STORAGE TEMPERATURE RANGE.....	$-25^\circ\text{C}$ TO $+100^\circ\text{C}$
LEAD SOLDERING TEMP. (1.6mm FROM BODY).....	$260^\circ\text{C}$ FOR 5 SEC.

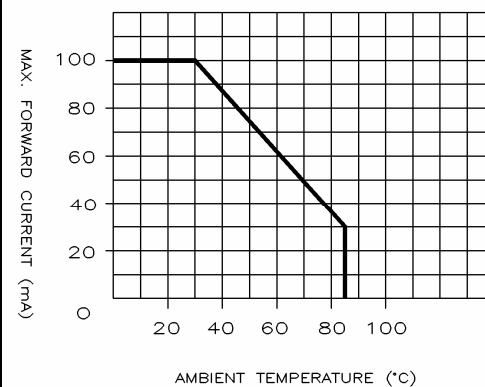
## Electrical/optical characteristics at $T_A=25^\circ\text{C}$

PART NUMBER	INFRARED CHIP		LENS COLOR	PEAK WAVELENGTH @100mA (nm)	FORWARD VOLTAGE @50mA(V)		RADIANT POWER @100mA(mw)		VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL	EMITTING COLOR			TYP.	MAX.	MIN.	TYP.	
UT1883-81-880	GaAlAs	-----	WATER CLEAR	880	1.5	1.9	10	16	22
UT1885-81-880	GaAlAs	-----	BLUE CLEAR	880	1.5	1.9	10	16	22
UT1883-81-940	GaAs	-----	WATER CLEAR	940	1.3	1.7	10	16	22
UT1885-81-940	GaAs	-----	BLUE CLEAR	940	1.3	1.7	10	16	22

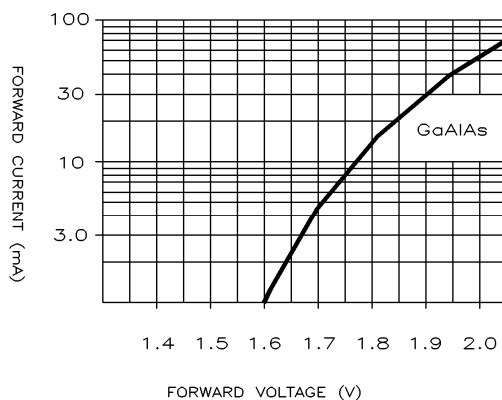
## Package Dimensions



## Ambient Temperature VS. Max. Forward Current



## Forward Voltage VS. Forward Current



## Forward Current VS. Relative Radiant Power

