



# LT1813-83-UBC1

# 5.0MM ROUND LAMP

## Features

- \* LOW CURRENT REQUIREMENTS
- \* HIGH LIGHT OUTPUT
- \* RELIABLE AND RUGGED
- \* IC COMPATIBLE

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

REVERSE VOLTAGE ( $<100 \mu\text{A}$ ).....	4.0V
D.C. FORWARD CURRENT.....	30mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH).....	100 mA
OPERATING TEMPERATURE RANGE.....	-25°C TO +85°C
STORAGE TEMPERATURE RANGE.....	-25°C TO +100°C
LEAD SOLDERING TEMP. (1.6mm FROM BODY).....	260°C FOR 5 SEC.

## Eye Safety Information

These LED devices are measured to be AEL Class 2 LED Products per IEC 825-1 and CENELEC EN60825-1 Standards when operated at the maximum data sheet dc drive current. For eye safety, do not stare into the light beam of these LED devices at close range.

## Electrical/Optical Characteristics at $T_A=25^\circ\text{C}$

PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP.		FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL	EMITTING COLOR		$I_F @ 20\text{mA}$ (nm)		TYP.	MAX.	MIN.	TYP.	
				$\lambda_p$	$\lambda_d$					
LT1813-83-UBC1	AlGaInP	HYPER RED	W.C.	632 ± 5	625 ± 5	2.1	2.4	1500	2500	10

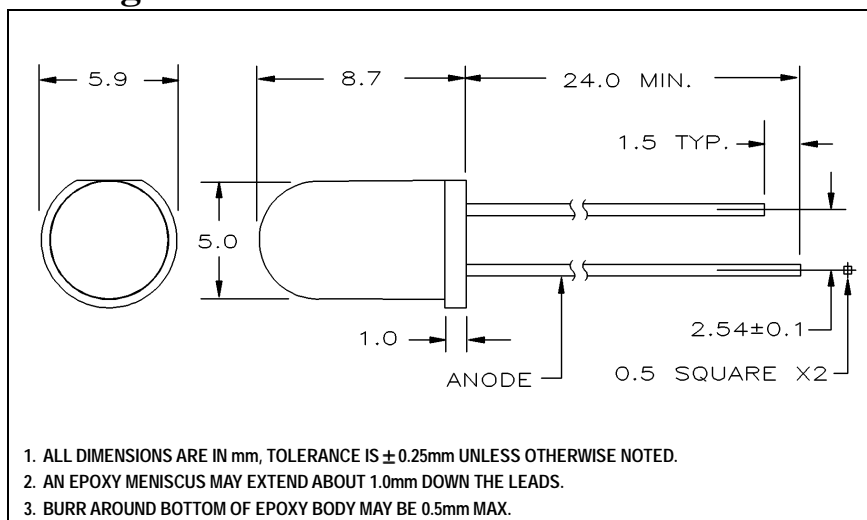
(1) LENS COLOR

W.C....WATER CLEAR

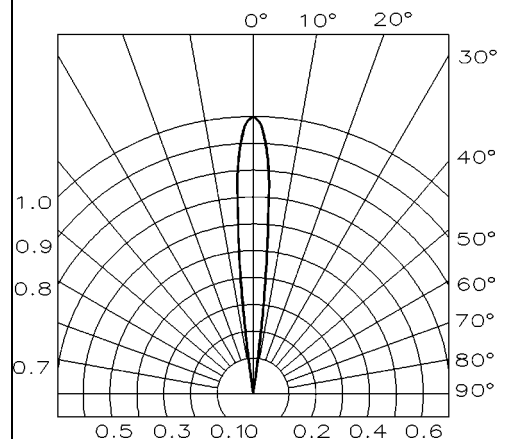
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

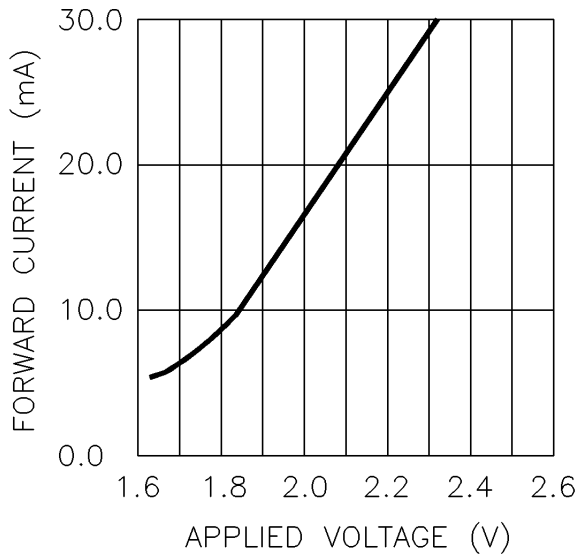
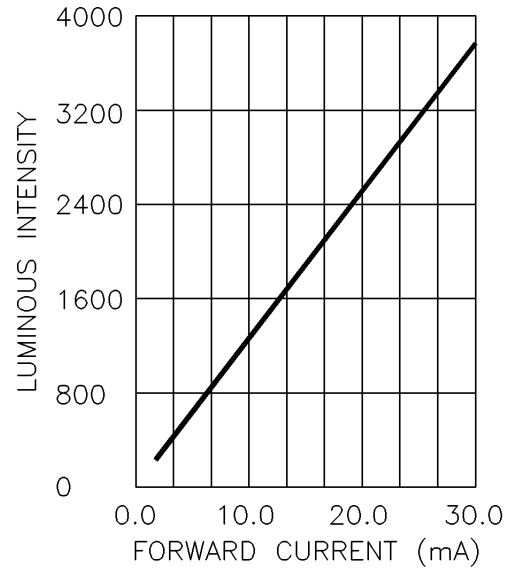
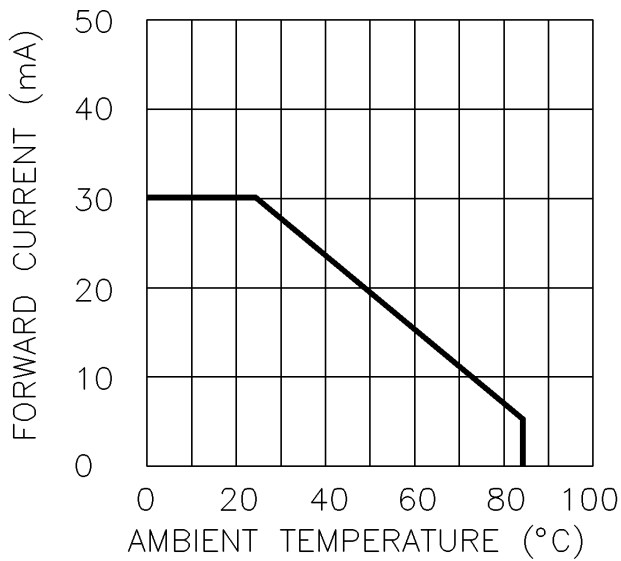
(3) ALL ABOVE COMPONENTS ARE CONSIDERED . DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED .

## Package Dimensions



## Radiation Pattern



**Forward Current vs. Applied Voltage****Luminous Intensity vs. Forward Current****Forward Current vs. Ambient Temperature****Relative Intensity vs. Wavelength**