



LT1813-81-UC9T-P22 5.0MM ROUND LAMP

Feature

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

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

REVERSE VOLTAGE($100 \mu\text{A}$)	4.0 V
D.C. FORWARD CURRENT	30 mA
PULSE CURRENT (1/10 DUTY CYCLE,0.1 ms PULSE WIDTH)	100 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.

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 $T_A=25^\circ\text{C}$

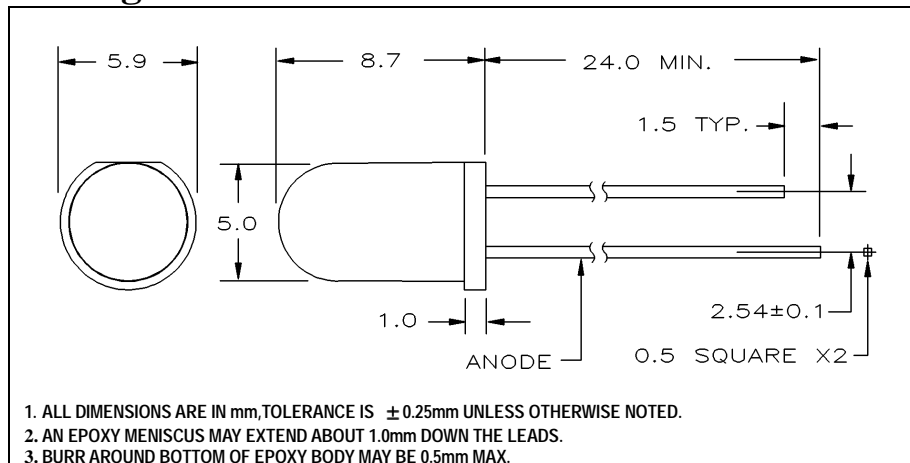
PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP.		FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL	EMITTING COLOR		I_f @20mA (nm)		TYP.	MAX.	MIN.	TYP.	
				λ_p	λ_d					
LT1813-81-UC9T-P22	AlGaInP	ULTRABRIGHT RED	W.C.	642 ± 5	630 ± 5	2.2	2.6	2200	3700	25

(1) LENS COLOR
W.C....WATER CLEAR

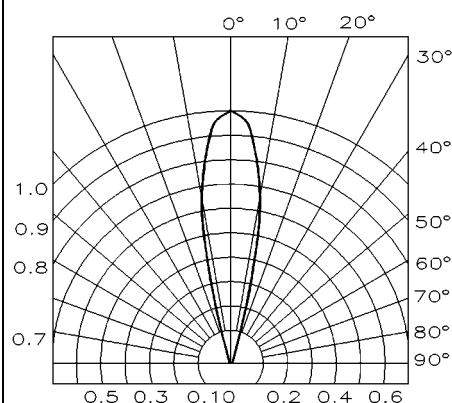
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

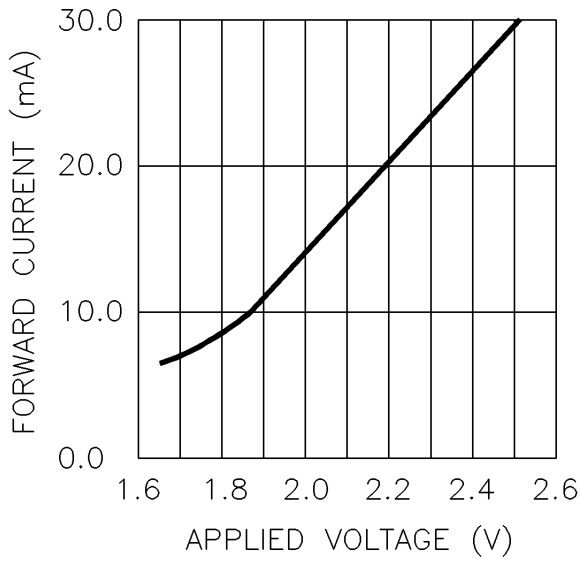
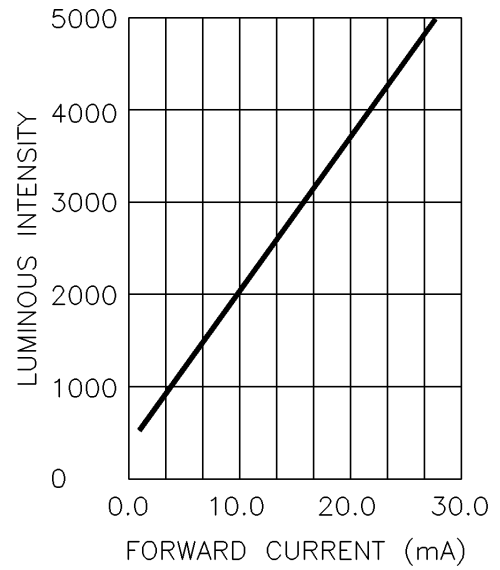
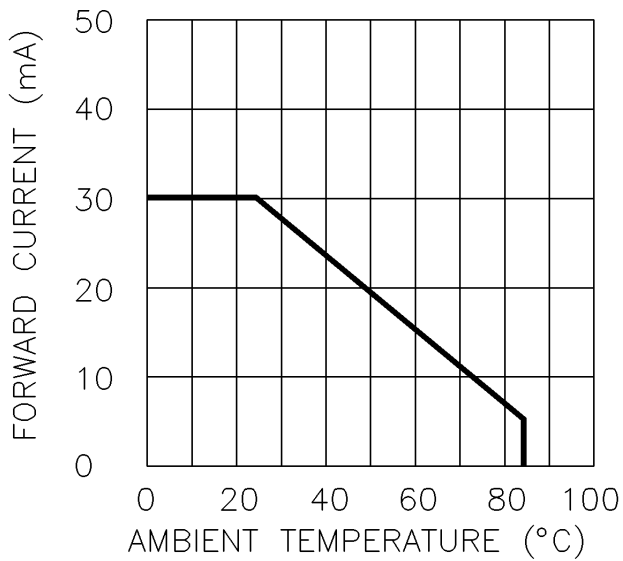
(3) ALL ABOVE COMPONENTS ARE CONSIDERED . DEVIATIONS FROM STATED SPECIFACATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED .

Package Dimensions



Radiation Pattern



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