

### Feature

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

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

REVERSE VOLTAGE(<math>100 \mu\text{A}</math>)	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°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 $T_A=25^\circ\text{C}$

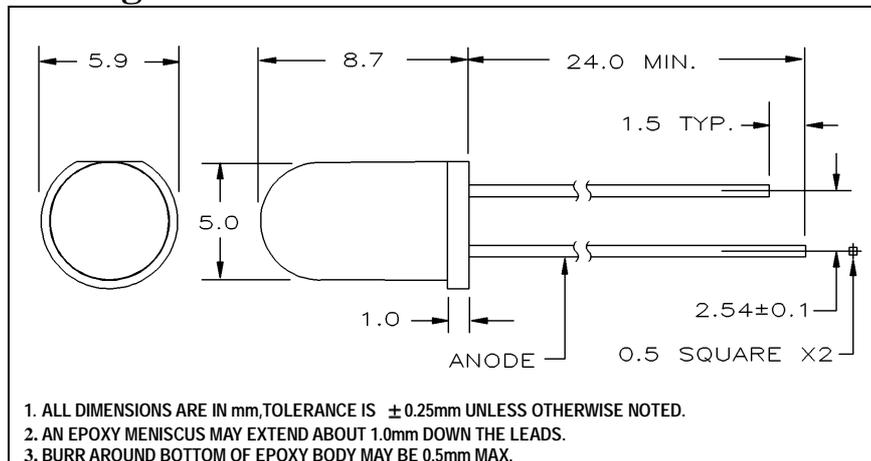
PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP.		FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL	EMITTING COLOR		$I_f$ @20mA (nm)		TYP.	MAX.	MIN.	TYP.	
				$\lambda_p$	$\lambda_d$					
LT1813-83-UC9T	AlGaInP	ULTRABRIGHT RED	W.C.	$642 \pm 5$	$630 \pm 5$	2.2	2.6	3500	6000	15

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

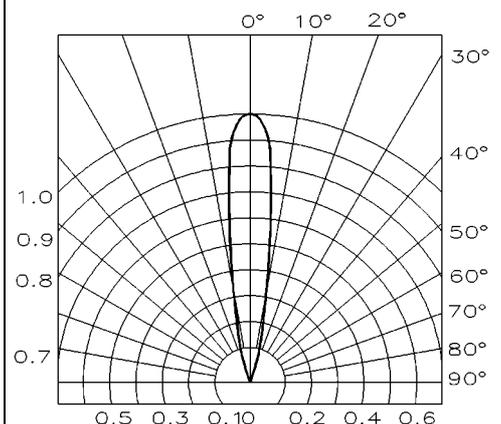
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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

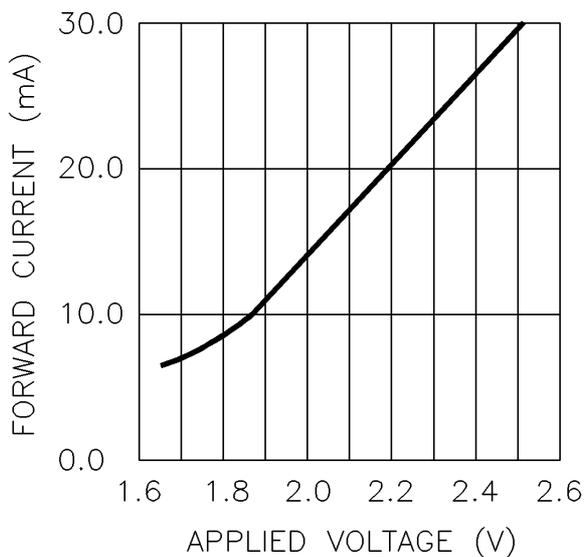
### Package Dimensions



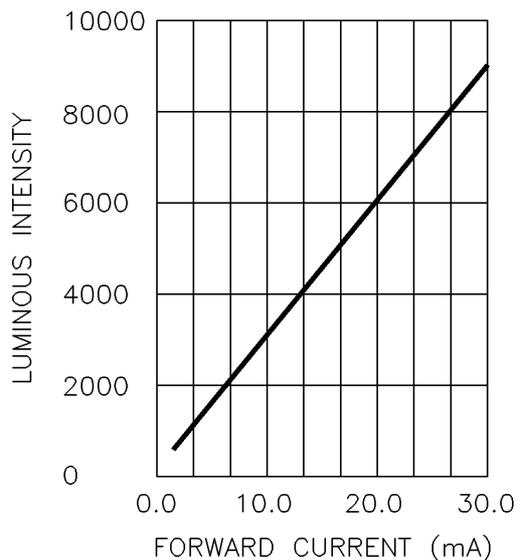
### Radiation Pattern



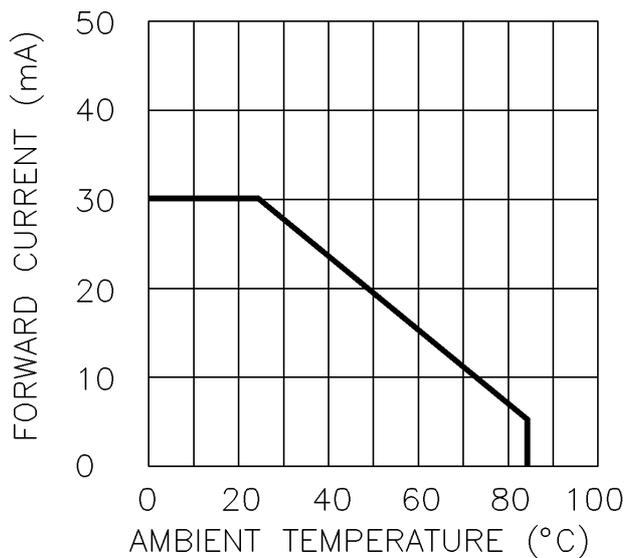
**Forward Current vs. Applied Voltage**



**Luminous Intensity vs. Forward Current**



**Forward Current vs. Ambient Temperature**



**Relative Intensity vs. Wavelength**

