

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 $^{\circ}\text{C}$ 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. I _F @20mA (nm)		FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE 2 θ ^{1/2} (deg)
	MATERIAL	EMITTING COLOR		λ p	λ d	TYP.	MAX.	MIN.	TYP.	
LT1833-83-UBC2	AlGaInP	ORANGE YELLOW	W.C.	598 ± 5	595 ± 5	2.1	2.4	2000	3200	10

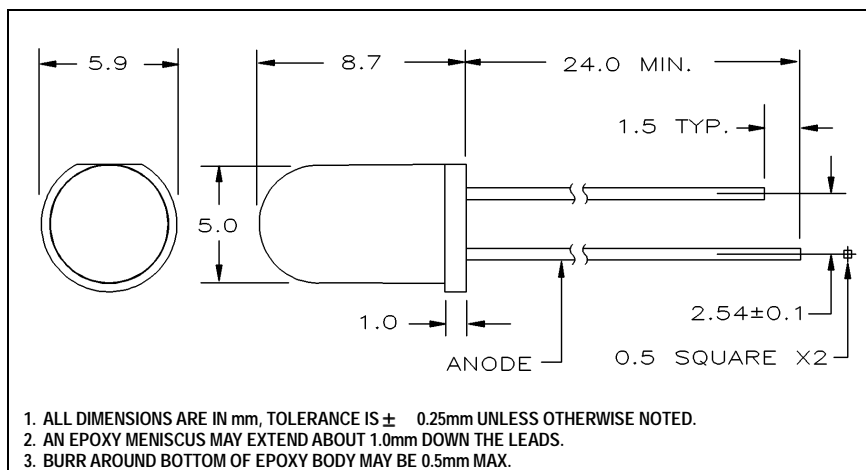
(1) LENS COLOR

W.C....WATER CLEAR

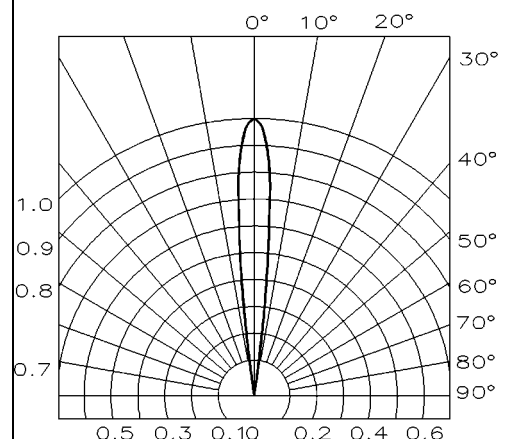
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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

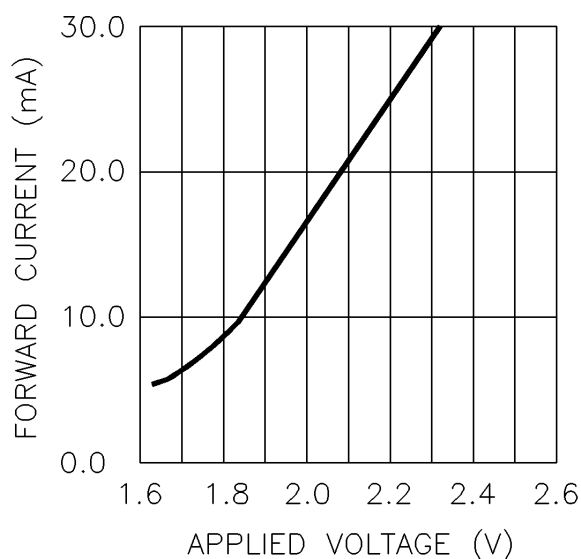
Package Dimensions



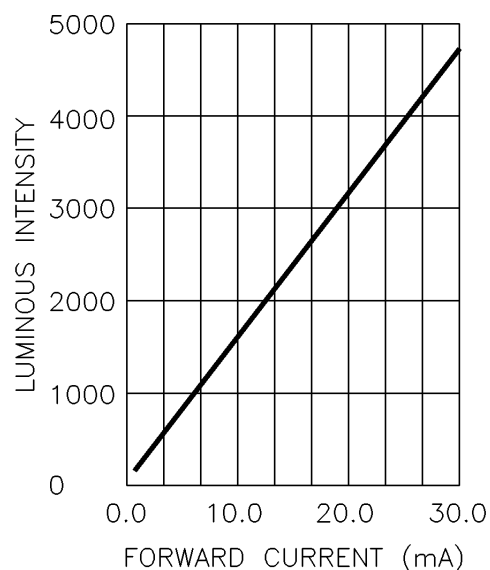
Radiation Pattern



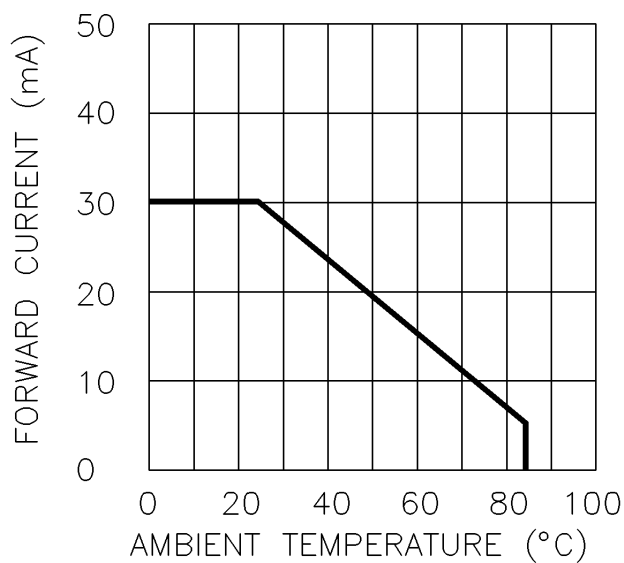
Forward Current vs. Applied Voltage



Luminous Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength

