

### Features

**High Luminous Output at Lower Current Levels**

- \* Meets SAE/ECE/JIS Automotive Colors
- \* Packaged in tubes for automatic insertion
- \* Ideal for Electronic Signs and Signals
- \* Can replace HPWA(T)-D in some applications

### 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	40 mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	100 mA
OPERATING TEMPERATURE RANGE	-40°C TO +85°C
STORAGE TEMPERATURE RANGE	-40°C TO +100°C
LEAD SOLDERING TEMP. (1.6mm FROM BODY)	260°C FOR 5 SEC.

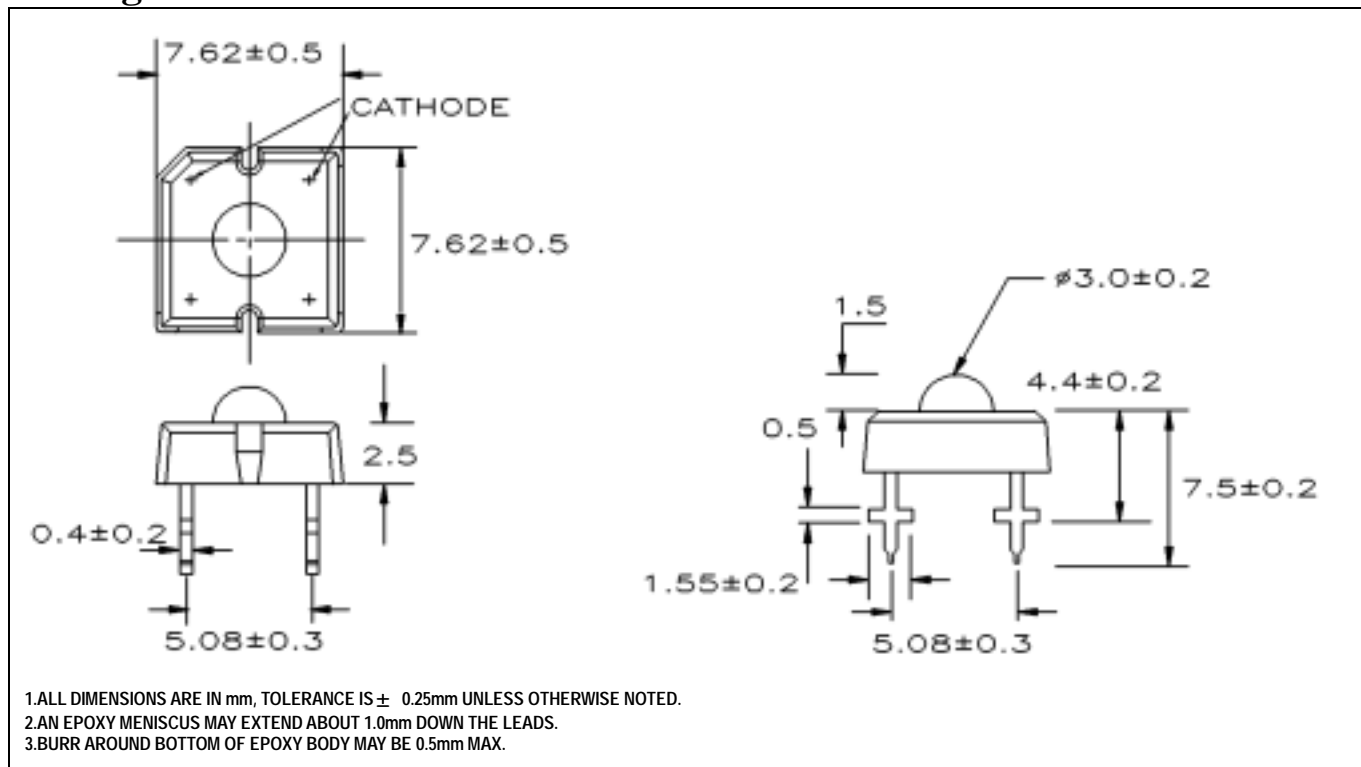
### Electrical/optical characteristics at $T_A=25^\circ\text{C}$

PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP.		FORWARD VOLTAGE @20mA (V)		LUMINOUS INTENSITY @20mA (mcd) / @30mA (mcd)				VIEW ANGLE $2\theta_{1/2}$ (deg)	TOTAL ANGLE $\theta_{0.90v}$ (deg)	
	MATERIAL	EMITTING COLOR		$I_f$ @20mA (nm)	$\lambda_p$	$\lambda_d$	TYP.	MAX.	MIN.	TYP.	MIN.			TYP.
LT6U13-AH-UBC2	AlGaInP	SUPER RED	W.C.	639 ± 5	630 ± 5	2.1	2.4	480	800	720	1200	30	90	

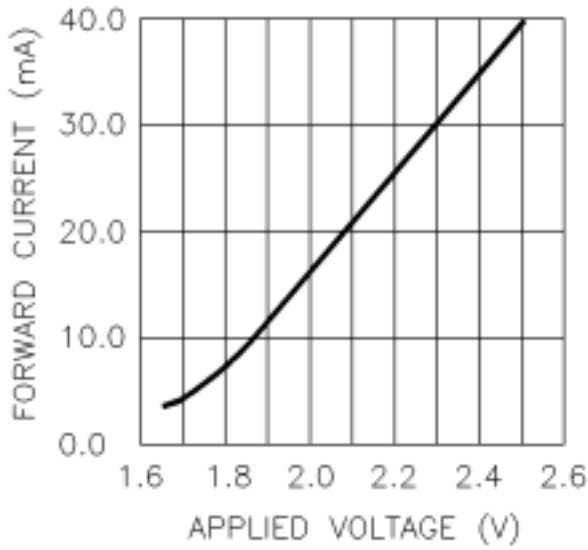
- (1) LENS COLOR: W.C.=WATER CLEAR
- (2)  $\theta_{0.90v}$  IS THE INCLUDED ANGLE AT WHICH 90% OF THE TOTAL LUMINOUS INTENSITY IS CAPTURED.

- (3) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- (4) ALL ABOVE COMPONENTS ARE CONSIDERED. DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER TO BE ASSIGNED.

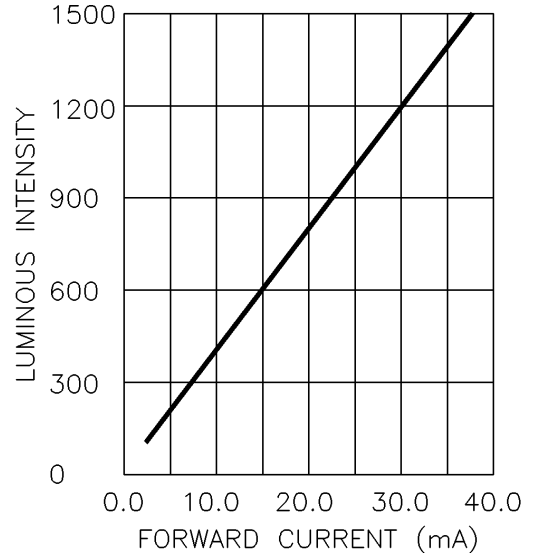
### Package Dimensions



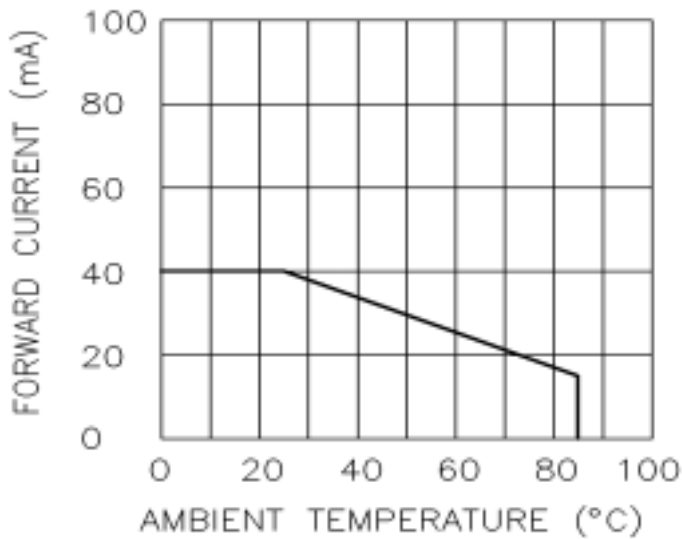
**Forward Current vs. Applied Voltage.**



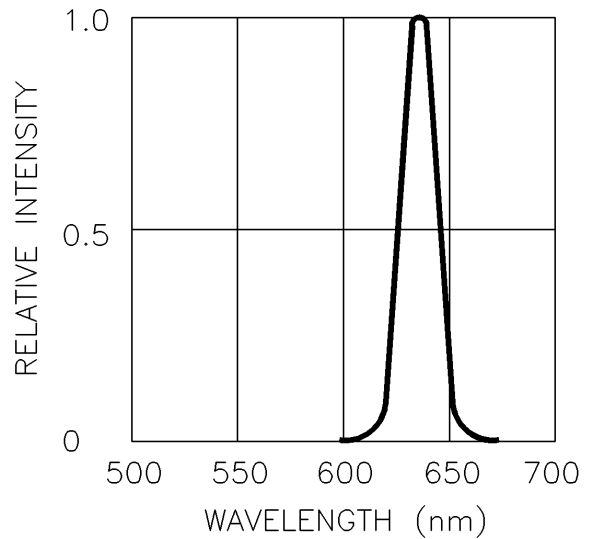
**Luminous Intensity vs. Forward Current.**



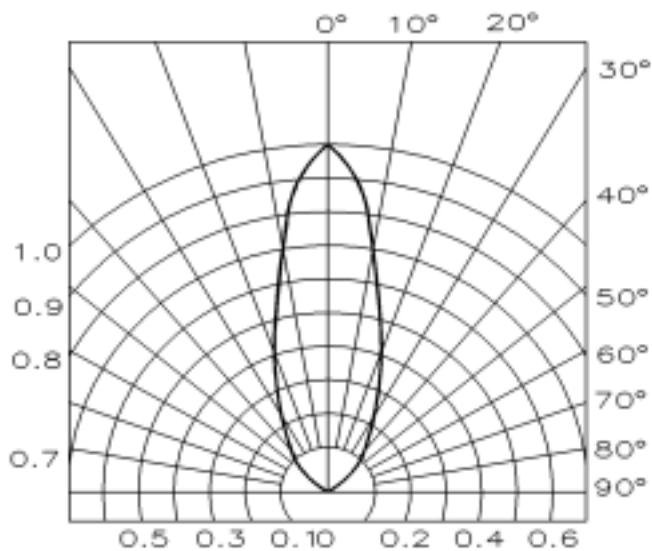
**Forward Current vs. Ambient Temperature.**



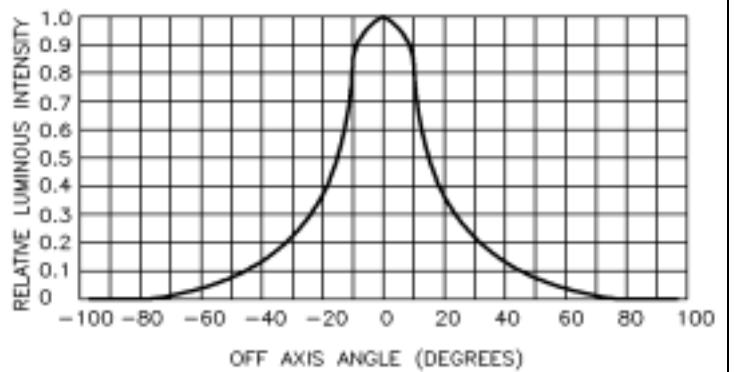
**Relative Intensity vs. Wavelength.**



**Radiation Pattern**



**Relative Luminous Intensity vs. Off Axis Angle.**



**Specifications for Bin Grading:**

LT6U13-AH-UBC2

Iv (mcd)		
Bin	Min	Max
E	245	400
F	335	550
G	450	770
H	630	1100
J	900	1540
K	1260	2140
L	1765	3025