

## CL- 10013LURC1A

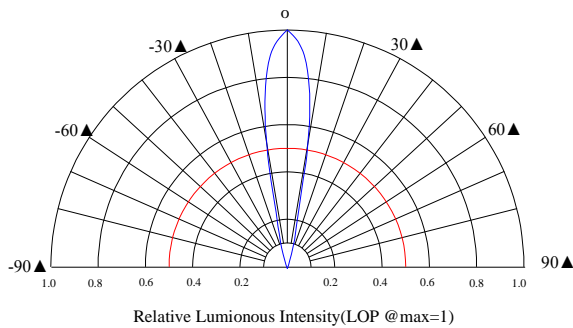
### Features:

- High intensity
- General purpose leads
- RoHs compliant.

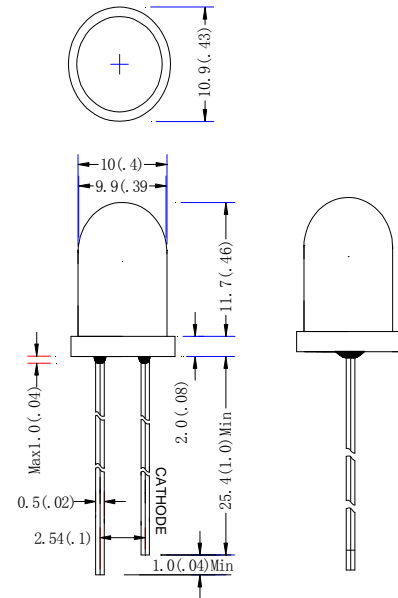
### Descriptions:

- Dice material: AlGaInP
- Emitting Color: Super bright Red
- Device Outline: Φ10mm Round Type.
- Lens Type: water clear.

### Radiation pattern.



### Package configuration



- ◆ All dimensions are millimeters (inches)
- ◆ Tolerance is  $\pm 0.25\text{mm}(.010\text{'})$  unless otherwise noted.

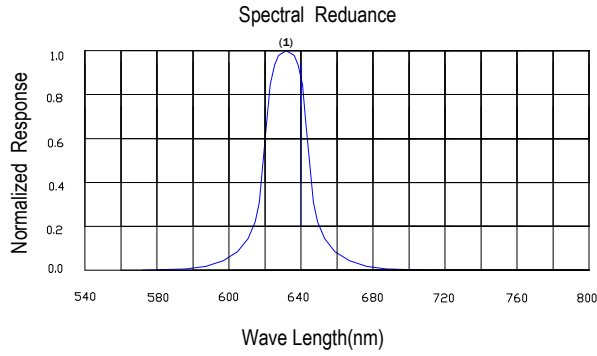
### Absolute maximum ratings( $T_a=25^\circ\text{C}$ )

| Parameter                                           | MAX.                                        | Unit                 |
|-----------------------------------------------------|---------------------------------------------|----------------------|
| Power Dissipation                                   | 72                                          | mW                   |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse) | 100                                         | mA                   |
| Continuous Forward Current                          | 30                                          | mA                   |
| Derating Linear From $50^\circ\text{C}$             | 0.4                                         | mA/ $^\circ\text{C}$ |
| Reverse Voltage                                     | 5                                           | V                    |
| Operating Temperature Range                         | $-30^\circ\text{C}$ to $+80^\circ\text{C}$  |                      |
| Storage Temperature Range                           | $-40^\circ\text{C}$ to $+100^\circ\text{C}$ |                      |
| Lead Soldering Temperature[4mm(.157") From Body]    | 260 $^\circ\text{C}$ for 5 Seconds          |                      |

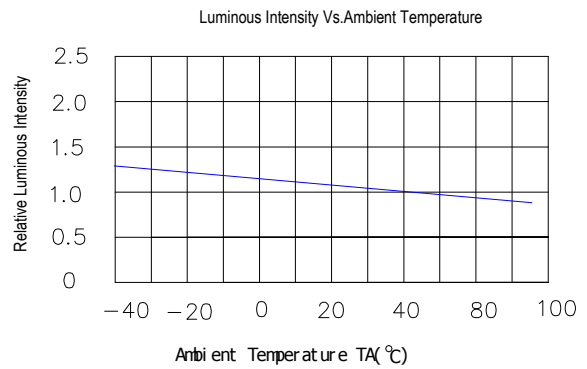
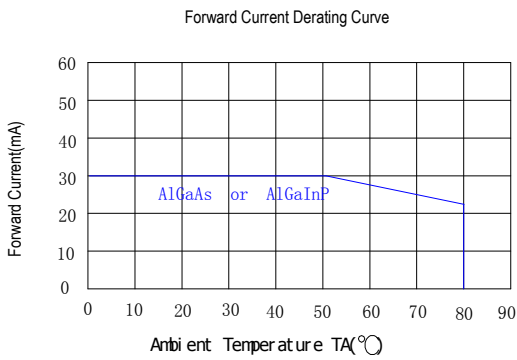
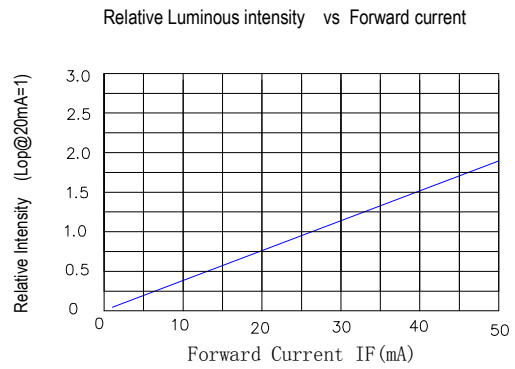
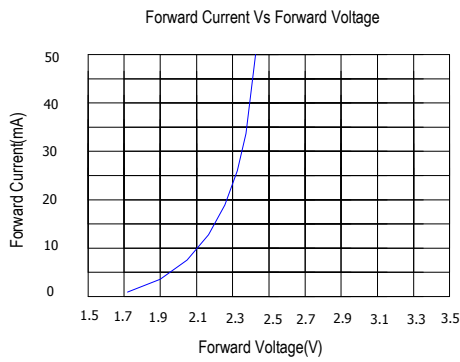
### Electrical and optical characteristics( $T_a=25^\circ\text{C}$ )

| Parameter                | Symbol          | Min.  | Typ.  | Max.  | Unit          | Test Condition |
|--------------------------|-----------------|-------|-------|-------|---------------|----------------|
| Luminous Intensity       | IV              | 10000 | 13500 | 15000 | mcd           | IF=20mA        |
| Viewing Angle            | 2 $\theta$ 1/2  | 15    | 20    | 25    | Deg           |                |
| Peak Emission            | $\lambda_p$     | 625   | 630   | 635   | nm            |                |
| Dominant Wavelength      | $\lambda_d$     | 620   | 625   | 630   | nm            |                |
| Spectral Line Half-Width | $\Delta\lambda$ | 10    | 15    | 20    | nm            |                |
| Forward Voltage          | VF              | 1.8   | 2.1   | 2.4   | V             | VR=5V          |
| Reverse Current          | IR              |       |       | 10    | $\mu\text{A}$ |                |

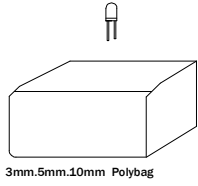
**Typical Electrical Characteristics Curves**  
**(25 °c Ambient Temperature Unless Otherwise Noted)**



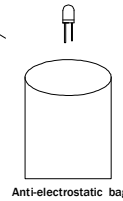
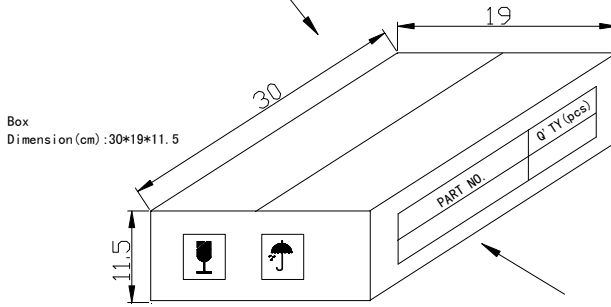
(1)AlGaInP peak@630/Red



## LAMP PACKING.



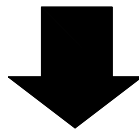
Label 1



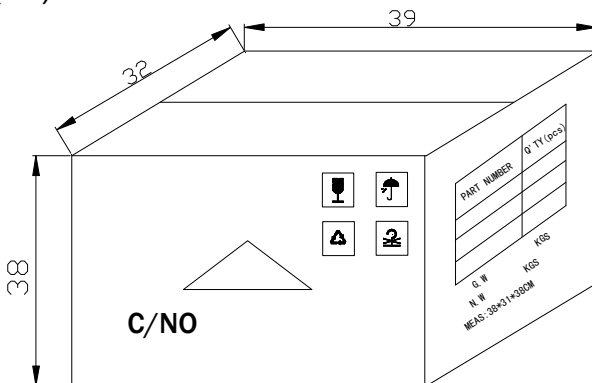
Label 2



| DEVICE           | QTY/polybag(pcs) | Polybag/box A | Fig     |
|------------------|------------------|---------------|---------|
| 5mm(T-1 3/4)     | 1000             | 8 bags        | Label 1 |
| 3mm(T-1 )        | 1000             | 10 bags       | Label 1 |
| 10mm(T-1)        | 250              | 8 bags        | Label 1 |
| Blue/Green/White | 500              | 8 bags        | Label 2 |



**CARTON**  
 Dimension(cm):39\*32\*38



**6 Boxes/Carton**  
 5mm:48,000pcs  
 3mm:60,000pcs  
 10mm:12,000pcs  
 Blue/Pure Green/bluish Green  
 /White:24,000pcs