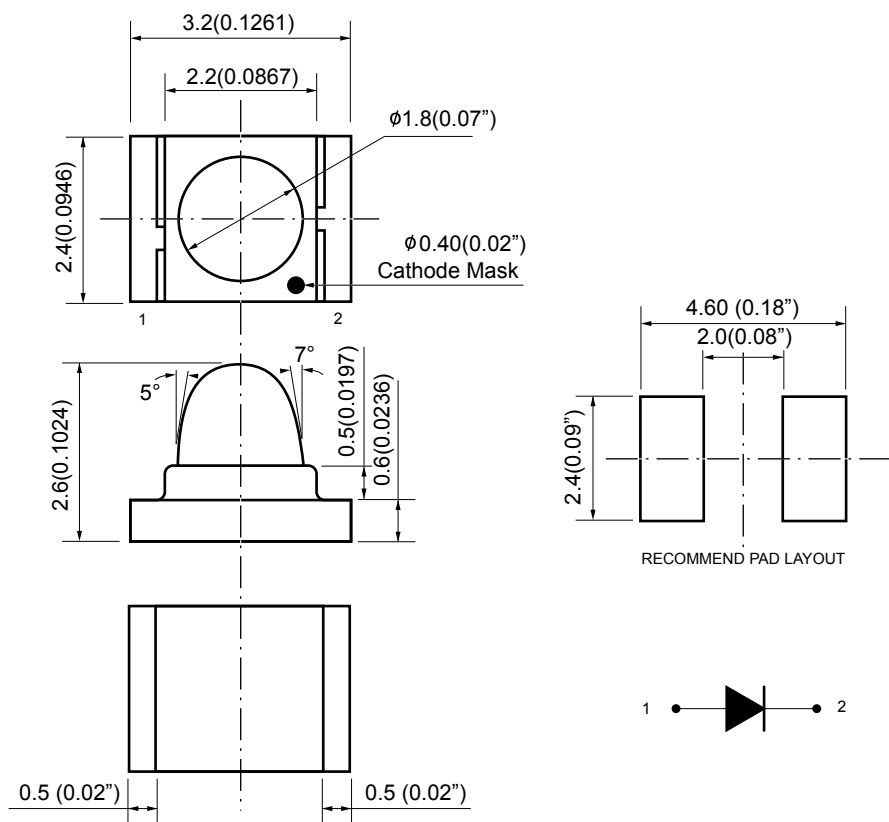


### LB113IC-S



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

| Parameter                                        | Symbol    | Value          | Unit               | Item                  | Materials           |
|--------------------------------------------------|-----------|----------------|--------------------|-----------------------|---------------------|
| Forward current                                  | $I_f$     | 30             | mA                 | Resin(mold)           | Epoxy               |
| Reverse voltage                                  | $V_r$     | 5              | V                  | Bonding Wire          | 25 $\mu\text{m}$ Au |
| Power dissipation                                | $P_d$     | 75             | mW                 | Lens color            | water transparent   |
| Operating temperature range                      | $T_{op}$  | $-20 \sim +80$ | $^{\circ}\text{C}$ | Printed circuit board | BT (white)          |
| Storage temperature range                        | $T_{stg}$ | $-20 \sim +80$ | $^{\circ}\text{C}$ | Dice                  | AlInGap             |
| Peak pulsing current (1/8 duty $f=1\text{kHz}$ ) | $I_{fg}$  | 125            | mA                 | Emitted color         | Yellow              |

Electro - optical characteristics( $T_a=25^{\circ}\text{C}$ )

| Parameter                   | Test Condition    | Symbol         | Value |      |     | Unit          |
|-----------------------------|-------------------|----------------|-------|------|-----|---------------|
|                             |                   |                | Min   | Typ  | Max |               |
| Wavelength at peak emission | $I_f=20\text{mA}$ | peak           |       | 595  |     | nm            |
| Spectral half bandwidth     | $I_f=20\text{mA}$ |                |       | 20   |     | nm            |
| Dominant wavelength         | $I_f=20\text{mA}$ | dom            |       | 590  |     | nm            |
| Forward voltage             | $I_f=20\text{mA}$ | $V_f$          |       | 2.0  | 2.5 | V             |
| Luminous intensity *        | $I_f=20\text{mA}$ | $I_v$          |       | 2400 |     | mcd           |
| Viewing angle at 50% $I_v$  | $I_f=10\text{mA}$ | $2 \times 1/2$ |       | 20   |     | Deg           |
| Reverse current             | $V_r=5\text{V}$   | $I_r$          |       |      | 10  | $\mu\text{A}$ |

\*Note: Luminous intensity tolerance is  $\pm 10\%$ .