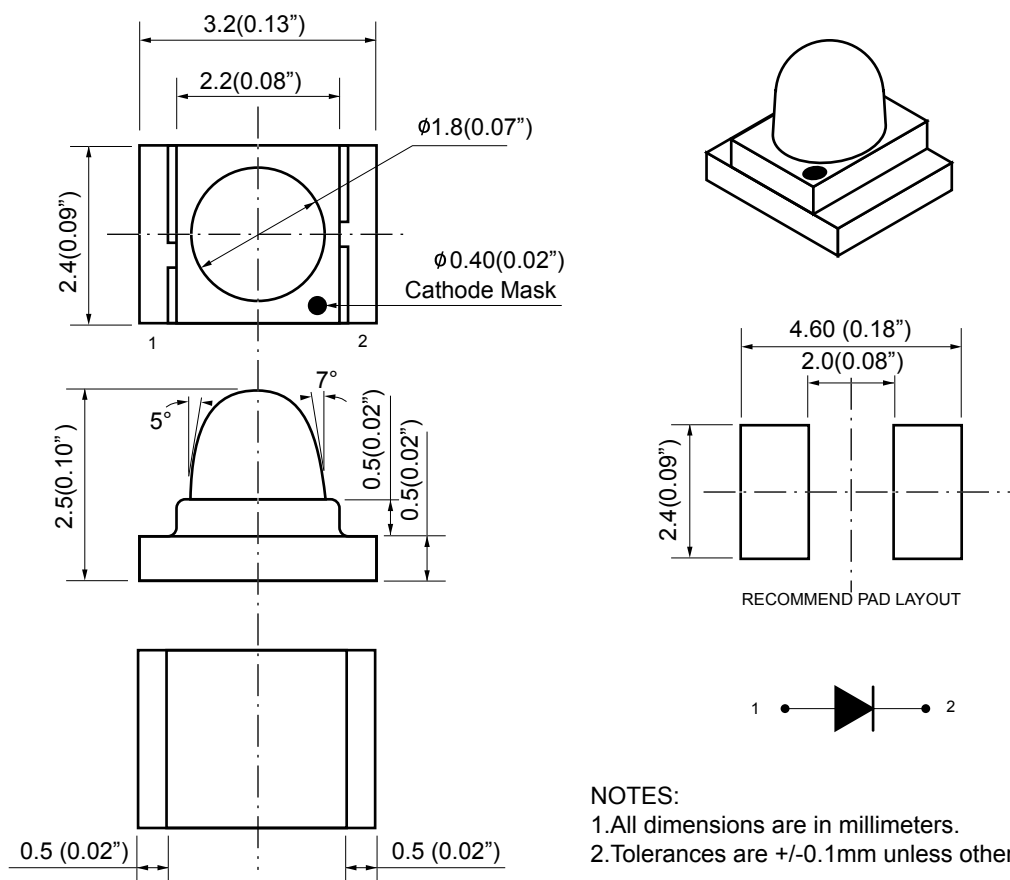


### KT113PGCI



#### NOTES:

1. All dimensions are in millimeters.
2. Tolerances are  $\pm 0.1$ mm unless otherwise noted.

#### 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          | $\phi 25 \mu\text{m Au}$ |
| Power dissipation                      | $P_d$     | 111       | mW               | Lens color            | water transparent        |
| Operating temperature range            | $T_{op}$  | -20 ~ +80 | $^\circ\text{C}$ | Printed circuit board | BT (white)               |
| Storage temperature range              | $T_{stg}$ | -20 ~ +80 | $^\circ\text{C}$ | Dice                  | GaN                      |
| Peak pulsing current (1/8 duty f=1kHz) | $I_{fg}$  | 125       | mA               | Emitted color         | Green                    |

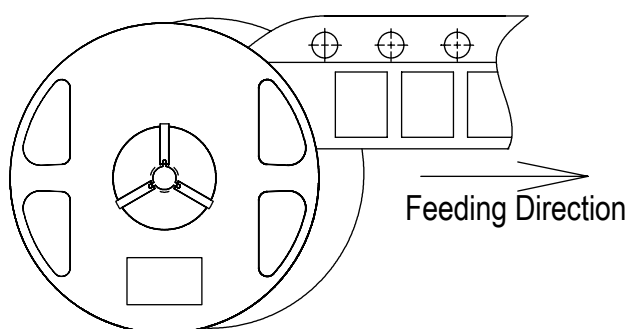
#### Electro - optical characteristics( $T_a=25^\circ\text{C}$ )

| Parameter                   | Test Condition    | Symbol           | Value |     |      | Unit          |
|-----------------------------|-------------------|------------------|-------|-----|------|---------------|
|                             |                   |                  | Min   | Typ | Max  |               |
| Wavelength at peak emission | $I_f=20\text{mA}$ | $\lambda_{peak}$ |       | 515 |      | nm            |
| Spectral half bandwidth     | $I_f=20\text{mA}$ | $\Delta\lambda$  |       | 30  |      | nm            |
| Dominant wavelength         | $I_f=20\text{mA}$ | $\lambda_{dom}$  | 515   |     | 525  | nm            |
| Forward voltage             | $I_f=20\text{mA}$ | $V_f$            | 2.8   |     | 3.7  | V             |
| Luminous intensity *        | $I_f=20\text{mA}$ | $I_v$            | 3200  |     | 6800 | mcd           |
| Viewing angle at 50% $I_v$  | $I_f=10\text{mA}$ | $2\theta_{1/2}$  |       | 15  |      | Deg           |
| Reverse current             | $V_r=5\text{V}$   | $I_r$            |       |     | 10   | $\mu\text{A}$ |

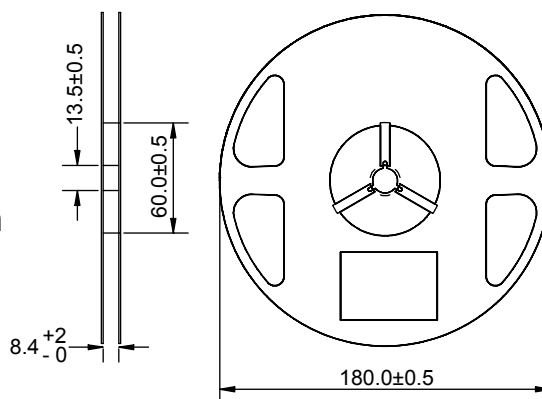
\*Note: Luminous intensity tolerance is  $\pm 10\%$ .

### KT113 Series SMD Chip LED Lamps Packaging Specifications

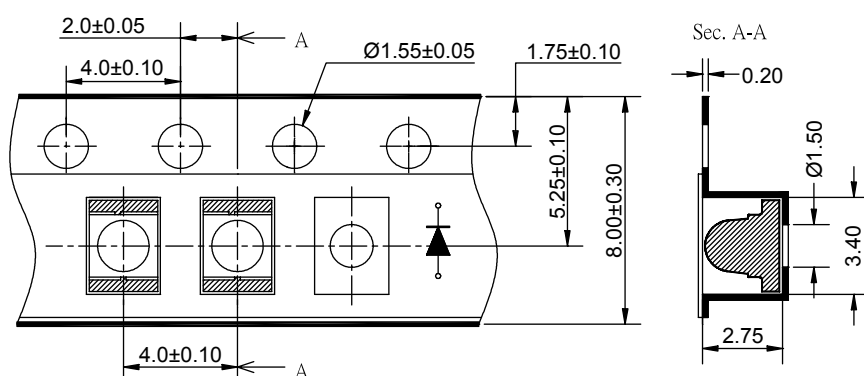
#### Feeding Direction



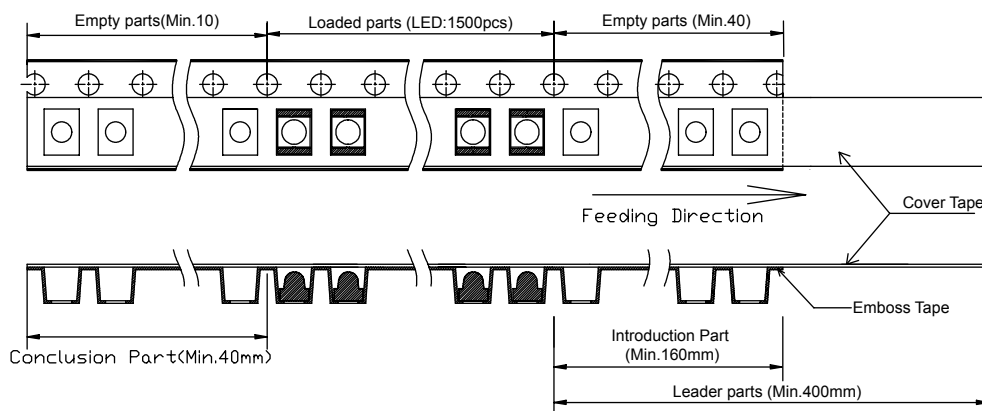
#### Dimensions of Reel (Unit: mm)



#### Dimensions of Tape (Unit: mm)



#### Arrangement of Tape



#### NOTES

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two;
3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.
4. 1,500 pcs/Reel