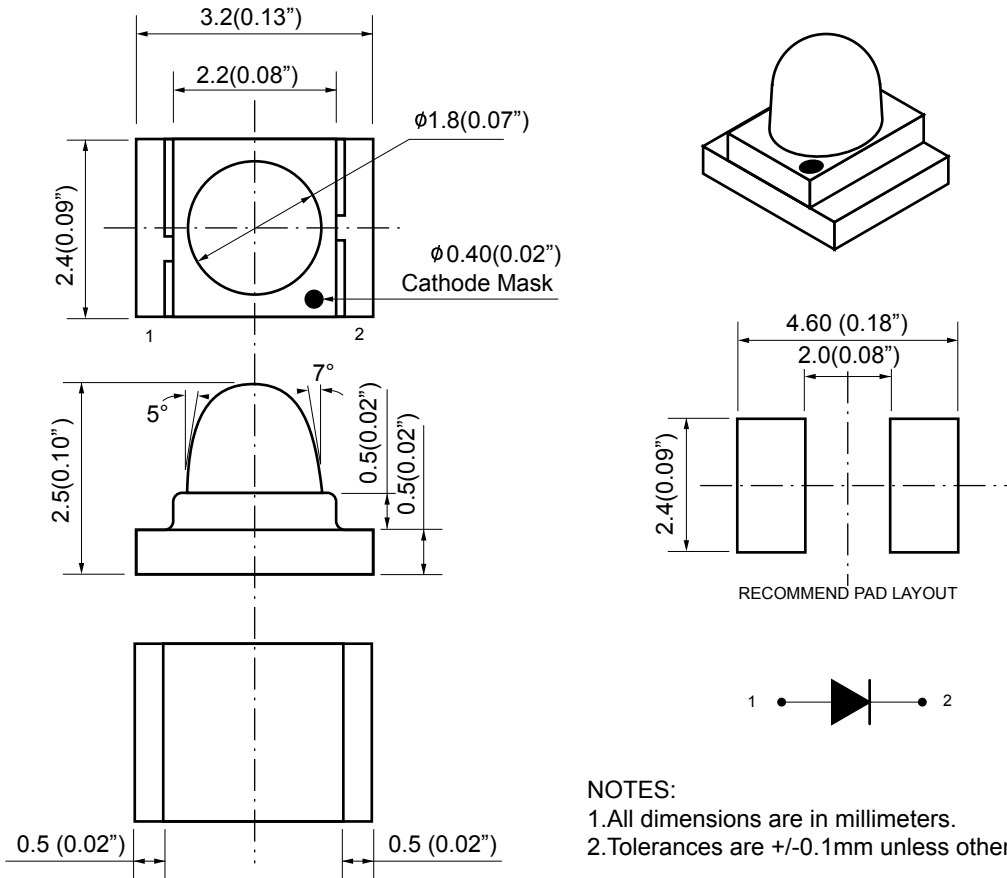


ST-113SAC



NOTES:
1.All dimensions are in millimeters.
2.Tolerances are +/-0.1mm unless otherwise noted.

Absolute maximum ratings(Ta=25°C):

| Parameter | Symbol | Value | Unit | Item | Materials |
|--|------------------|------------|------|-----------------------|-------------------|
| Forward current | I _f | 30 | mA | Resin(mold) | Epoxy |
| Reverse voltage | V _r | 5 | V | Bonding Wire | Φ25 um Au |
| Power dissipation | P _d | 75 | mW | Lens color | water transparent |
| Operating temperature range | T _{op} | -.20 ~ +80 | °C | Printed circuit board | BT (white) |
| Storage temperature range | T _{stg} | -.20 ~ +80 | °C | Dice | AlGaInP |
| Peak pulsing current (1/8 duty f=1kHz) | I _{fg} | 125 | mA | Emitted color | Amber |

Electro - optecal characteristics(Ta=25°C)

| Parameter | Test Condition | Symbol | Value | | | Unit |
|-------------------------------------|----------------------|-------------------|-------|------|-----|------|
| | | | Min | Typ | Max | |
| Wavelength at peak emission | I _f =20mA | λ _{peak} | | 610 | | nm |
| Spectral half bandwidth | I _f =20mA | Δλ | | 20 | | nm |
| Dominant wavelength | I _f =20mA | λ _{dom} | 601 | 606 | 611 | nm |
| Forward voltage | I _f =20mA | V _f | | 2.0 | 2.5 | V |
| Luminous intensity * | I _f =20mA | I _v | 1600 | 3900 | | mcd |
| Viewing angle at 50% I _v | I _f =10mA | 2Θ _{1/2} | | 15 | | Deg |
| Reverse current | V _r =5V | I _r | | | 10 | uA |

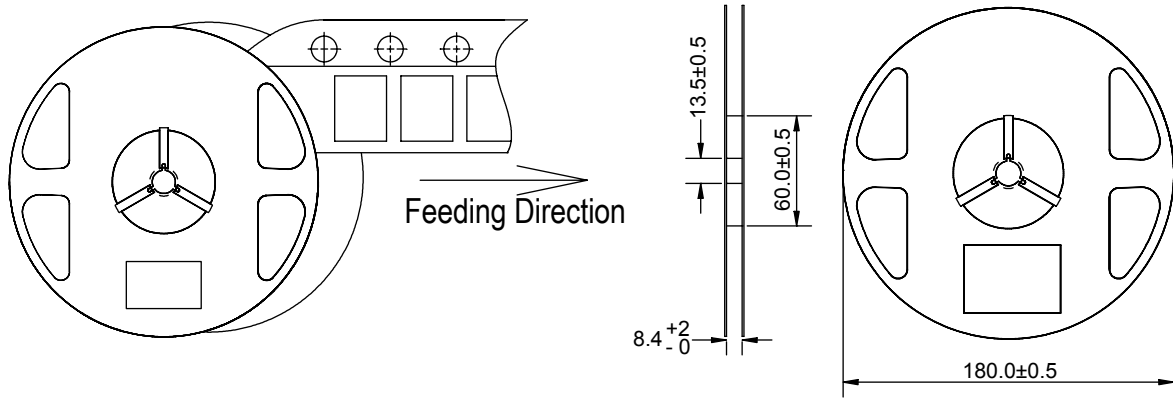
*Note:Luminous intensity tolerance is +/- 10%.

NOTES: 1. All dimensions are in millimeter (inches), tolerance is 0.25 unless otherwise noted.
2. Specifications are subject to change without notice.

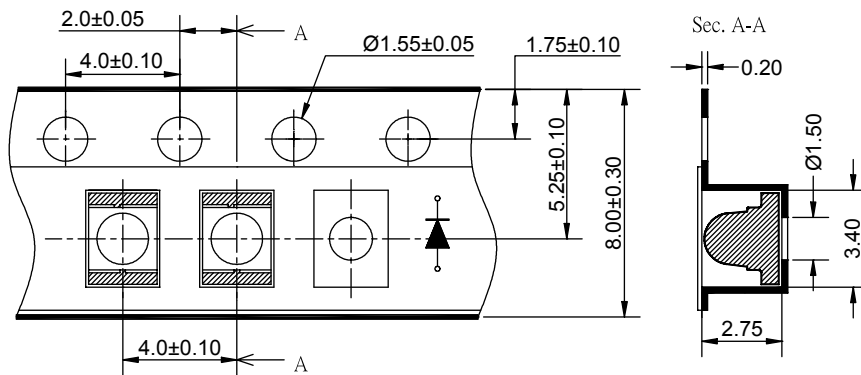
ST-113 Series SMD Chip LED Lamps Packaging Specifications

Feeding Direction

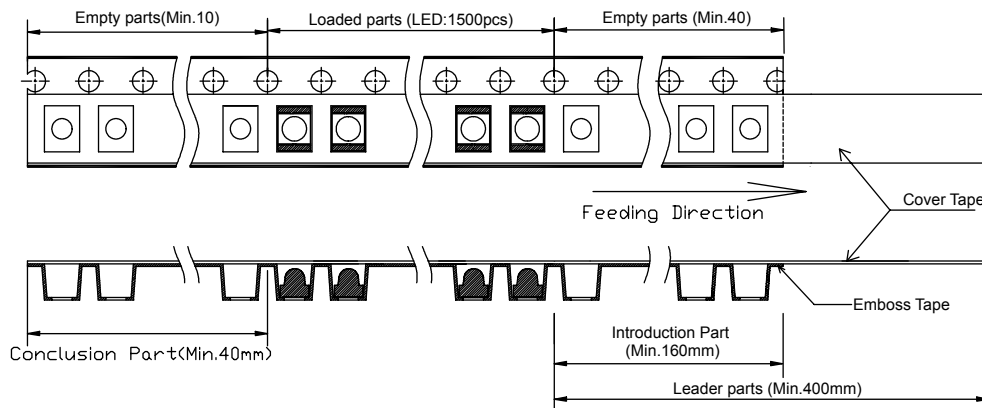
Dimensions of Reel (Unit: mm)



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