# YETDA INDUSTRY LTD.

## Technical Data Sheet

**MODEL NO： S0201ANW4-BH** **0201Package 0.65*0.35mm Chip LEDs**

Features：

●Package in 8mm tape on 7” diameter reel

●Compatible with automatic placement equipment

●Compatible with reflow solder process

Applications：

●Indicators

●Automotive：backlighting in dashboard and switch

●Backlight for LCD

| Dice material | Emitted color | Lens Color |
|---|---|---|
| InGaN | Blue | Yellow |

Electrical/Optical Characteristics(Ta=25℃)

| Parameter | Test Condition | Symbol | Value | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min | Typ | Max | |
| Spectral half bandwidth | $I_F$=5mA | △λ | | 22 | | nm |
| CIEWavelength | $I_F$=5mA | Λd | | 6500 | | K |
| Forward voltage | $I_F$=5mA | $V_F$ | 2.6 | | 3.20 | V |
| Luminous intensity | $I_F$=5mA | Iv | 180 | | 320 | mcd |
| Viewing angle at 50% Iv | $I_F$=5mA | 2θ 1/2 | | 120 | | Deg |
| Reverse current | $V_R$=5V | $I_R$ | | | 10 | μA |

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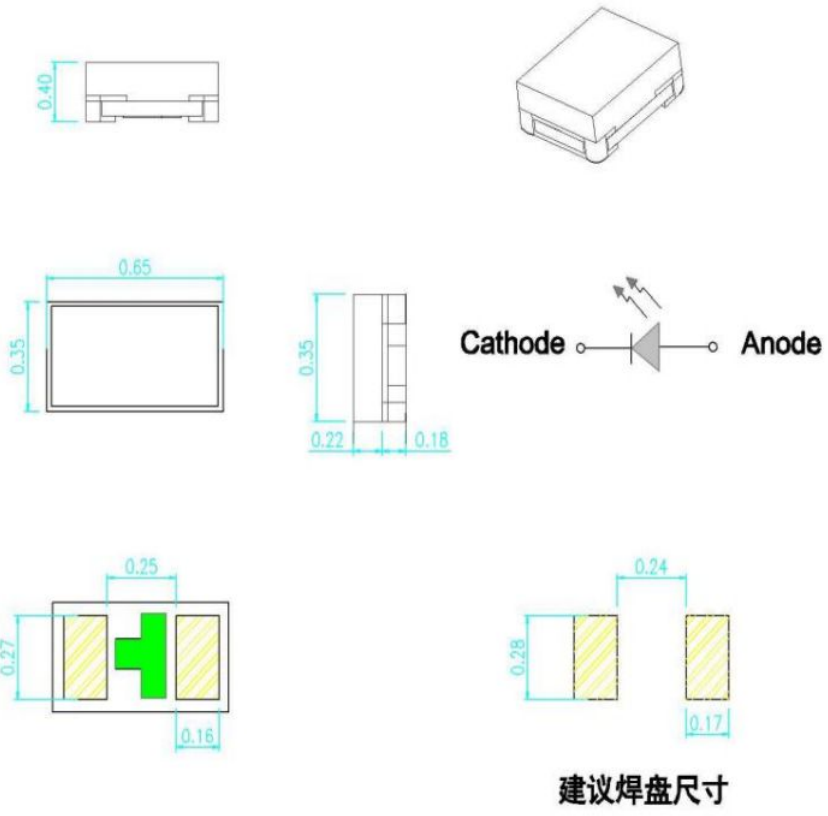
Absolute Maximum Ratings(Ta=25℃)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Power dissipation | Pd | 92 | mW |
| Forward current | $I_F$ | 20 | mA |
| Reverse voltage | $V_R$ | 5 | V |
| Operating temperature range | Top | -40 ~+80 | ℃ |
| Storage temperature range | Tstg | -40 ~+85 | ℃ |
| Peak pulsing current (1/8 duty f=1kHz) | $I_{FP}$ | 100 | mA |

Note:

1. 1/10 Duty cycle, 0.1ms pulse width.
2. Theaboveforwardvoltagemeasurementallowancetoleranceis±0.1V.
3. Theabovedominate wavelength measurementallowancetoleranceis±1nm.

## PACKAGING DIMENSIONS (mm):




Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ±0.15mm unless otherwise noted.

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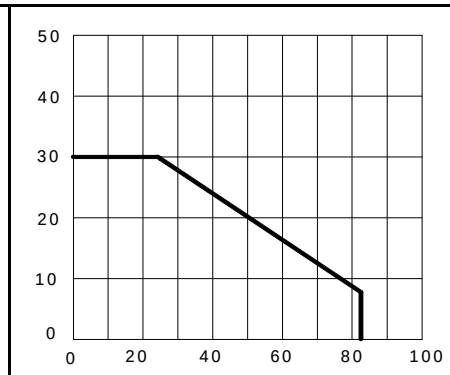
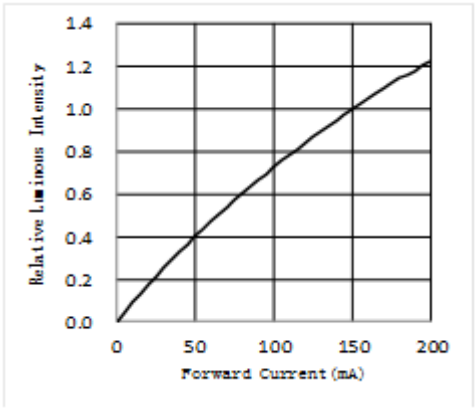
## Typical Electro-Optical Characteristics Curve:

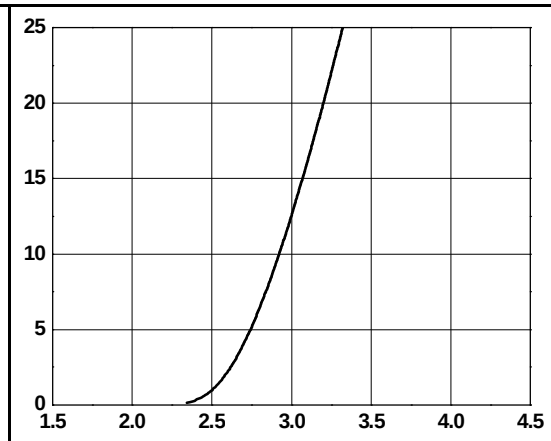
### Ambient Temperature vs. Forward Current



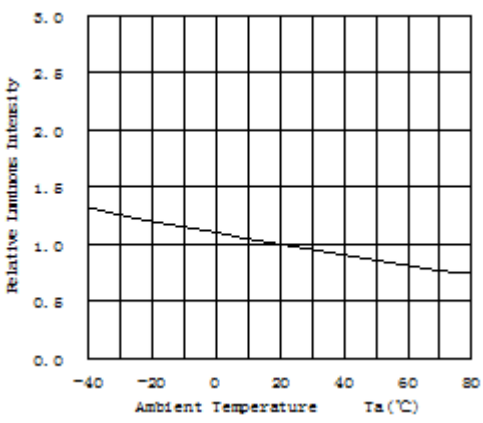

### Forward Current VS. Relative Intensity



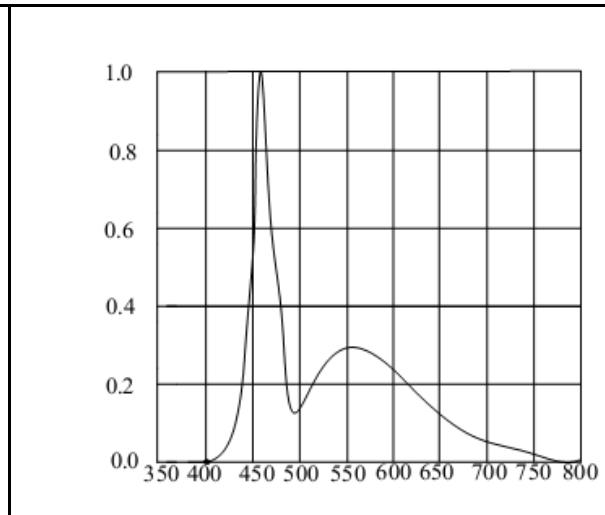

### Forward Voltage VS. Forward Current



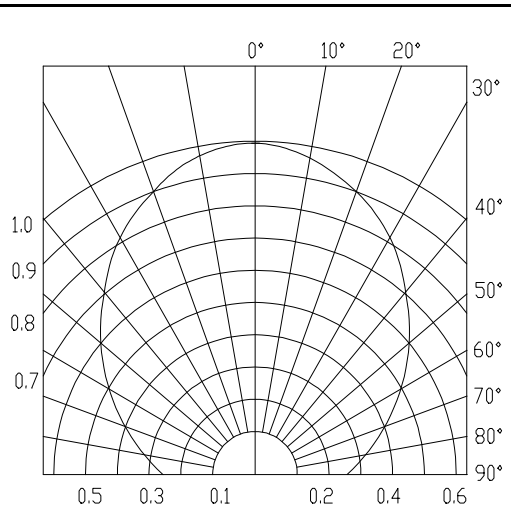

### Ambient Temperature VS. Relative Intensity




### Relative spectral emission




### Radiationdiagram



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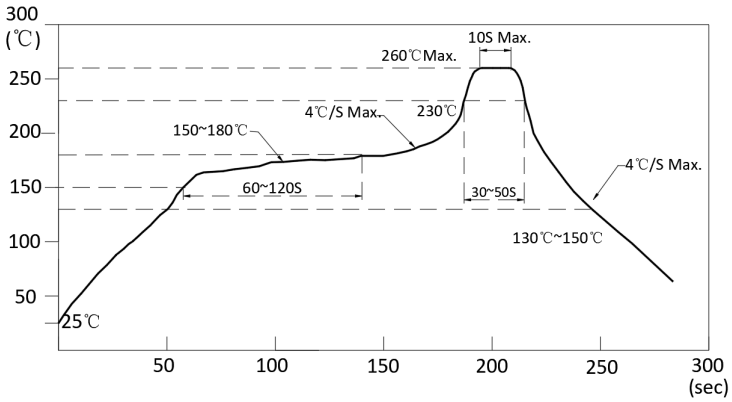
| **Precautions For Use：** |
|---|
| **Over－current－proof** |
| Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change （Burn out will happen） |
| **Storage** |
| 1. The operation of temperature and R.H. are：5℃～30℃, 60％R.H. Max. |
| 2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating regent. Considering the tape life, we suggest our customers to use our products within 1.5 year（from production date）. |
| 3. It’s recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is：60℃±5℃ for 15hrs. |

■ Reflow Temp/Time




Notes:

1.We recommend the reflow temperature 245℃(±5℃).The maximum solderingtemperature should be limited to 260℃.

2.Don’t cause stress to the epoxy resin while it is exposed to high temperature.

3.Number of reflow process shall be 2 times or less.

■Soldering iron

Basic spec is ≤ 5sec when 320℃(±20℃). If temperature is higher, time should be shorter(+10 ℃→ -1sec).

Powerdissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface

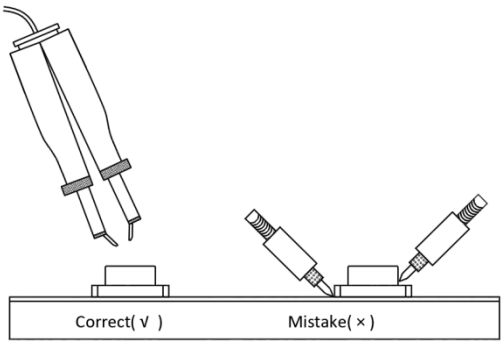
temperature of the device should be under 350℃.

Rework

1.Customer must finish rework within 5 sec under 340℃.

2. The head of iron cannot touch copper foil

3. Twin-head type is preferred.




■Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow solder etc.

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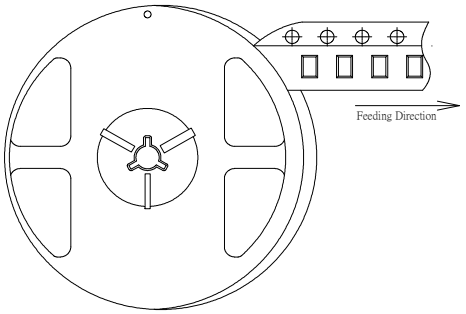
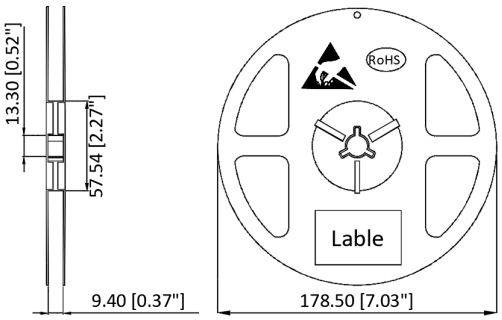
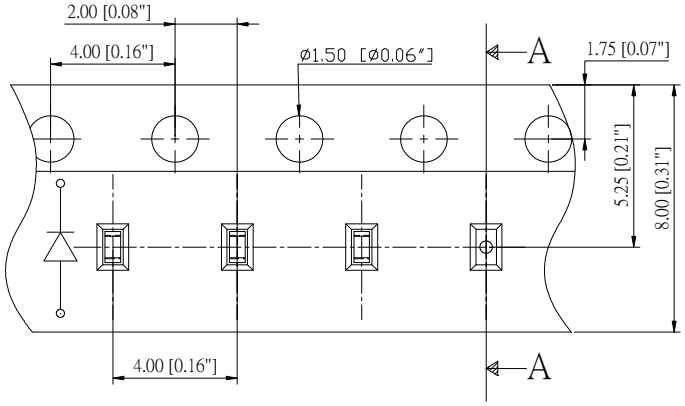
## ■Feeding Direction

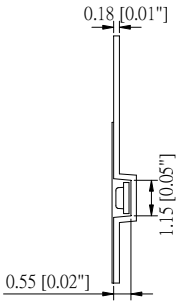



● **Dimensions of Reel (Unit: mm)**

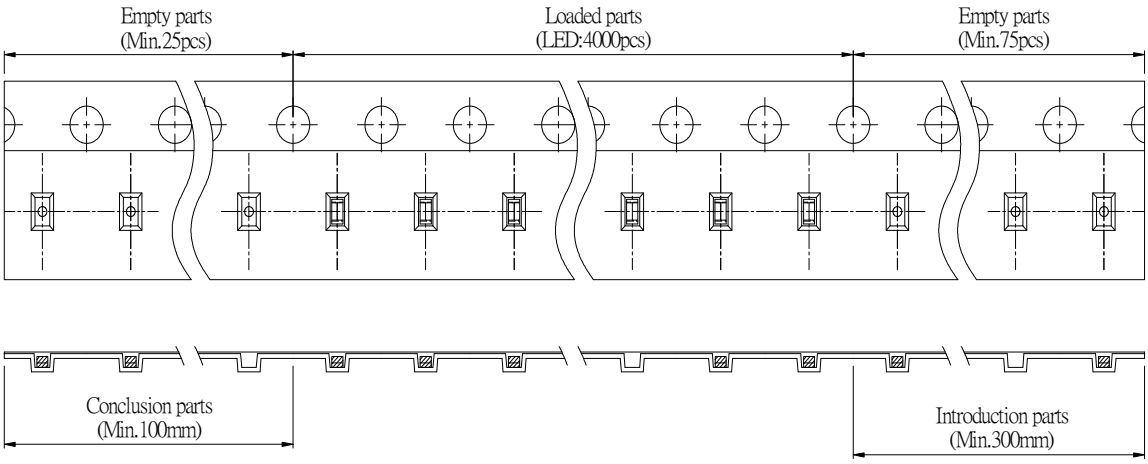



## ■Dimensions of Tape (Unit: mm)




## ■Arrangement of Tape




## ■Note

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two.
3. 4,000 pcs/Reel.