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Technical Data Sheet

MODEL NO : S3030ANWW4P-6V-PLK 3030 Package 3.0*3.0*0.6mm Top 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 | Warm White | Yellow Diffuser |

Electrical/Optical Characteristics(Ta=25°C)

| Parameter | Test Condition | Symbol | Value | | | Unit |
|-------------------------------------|-----------------------|----------------|-------|-------|-------|------|
| | | | Min | Typ | Max | |
| CIE Coordinates | I _F =150mA | X | 0.43 | | 0.45 | -- |
| | | Y | 0.395 | | 0.415 | |
| Forward voltage | I _F =150mA | V _F | 6.0 | | 6.6 | V |
| Color Temperature | I _F =150mA | TC | 2750 | 3000 | 3250 | K |
| Luminous intensity | I _F =150mA | I _v | 36000 | 37500 | 39000 | mcd |
| Luminous Flux | I _F =150mA | φ | 120 | 130 | | |
| Viewing angle at 50% I _v | I _F =150mA | 2 θ 1/2 | | 120 | | Deg |
| Reverse current | V _R =5V | I _R | | | 10 | μA |

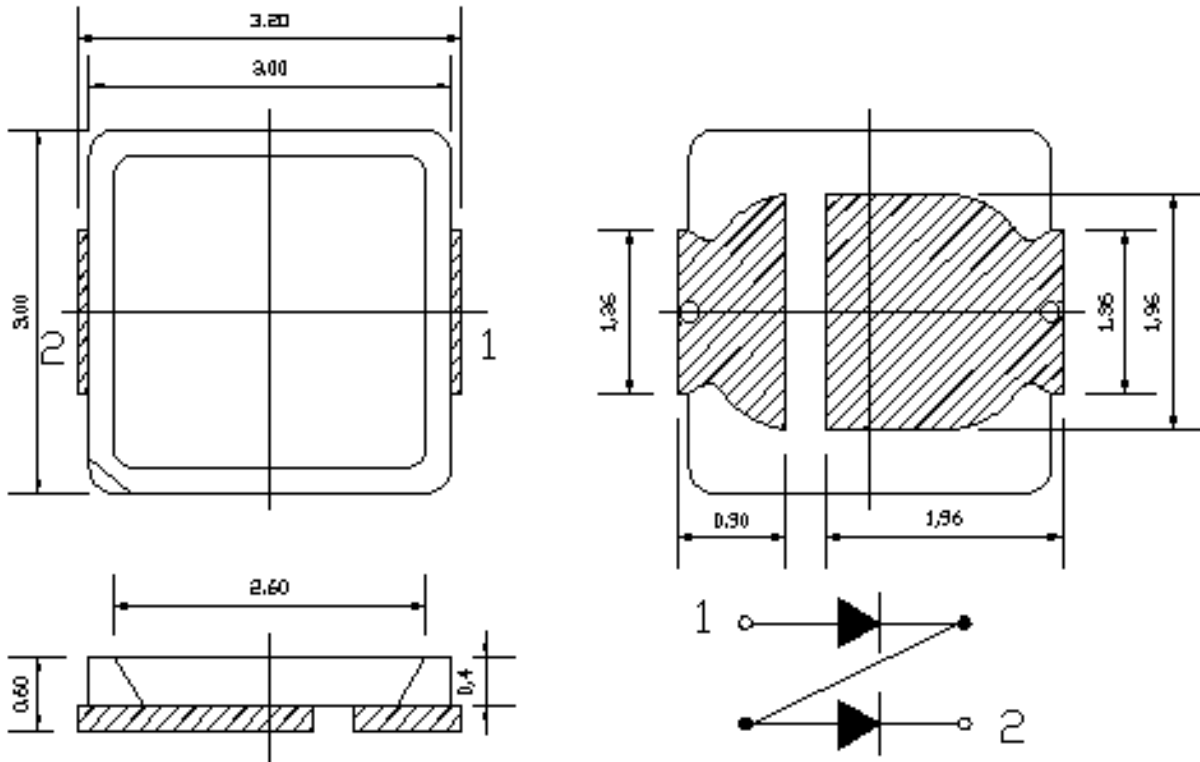
Absolute Maximum Ratings(Ta=25°C)

| Parameter | Symbol | Value | Unit |
|---|------------------|----------|------|
| Power dissipation | P _d | 1000 | mW |
| Forward current | I _F | 150 | mA |
| Reverse voltage | V _R | 5 | V |
| Operating temperature range | T _{op} | -20 ~+80 | °C |
| Storage temperature range | T _{stg} | -40 ~+80 | °C |
| Peak pulsing current (1/10 duty f=1kHz) | I _{FP} | 150 | mA |



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PACKAGING DIMENSIONS (mm):



NOTES :

- 1、 All dimensions are in millimeters (inches);
- 2、 Tolerances are $\pm 0.2\text{mm}$ (0.008inch) unless otherwise noted °

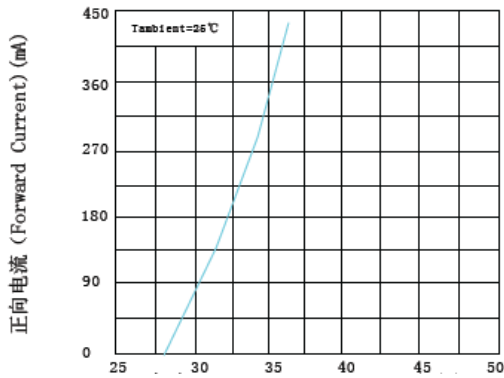
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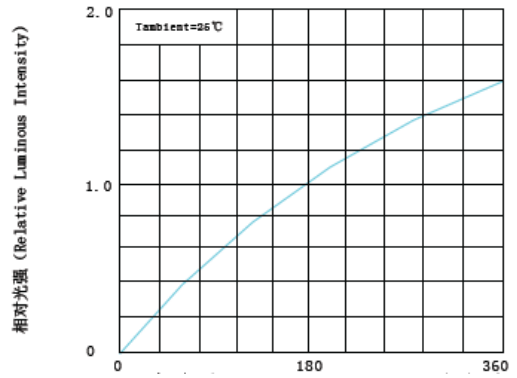
(Optical-Electrical Characteristic)

Volt-Ampere Characteristics



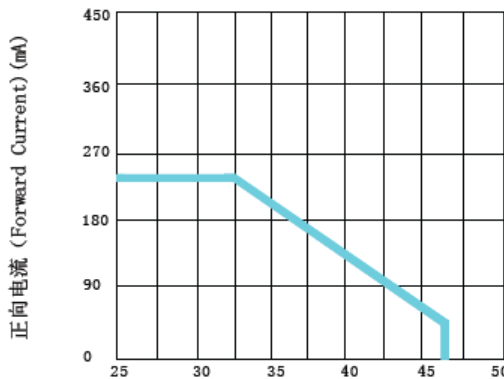
(Forward Voltage) (V)

Relative Luminous Intensity VS Forward Current



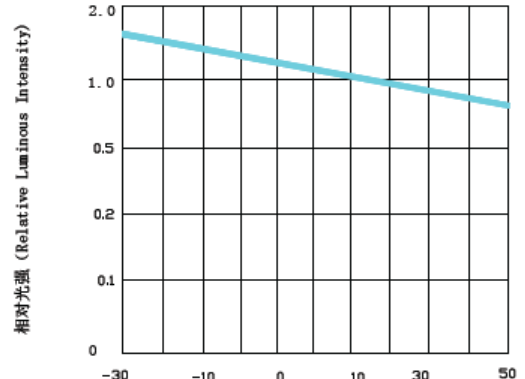
(Forward Current) (mA)

Forward Current Derating Curve



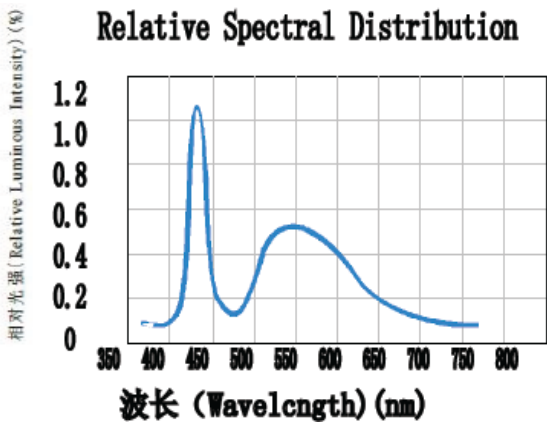
(Ambient Temperature) (°C)

Luminous Intensity VS Ambient Temperature



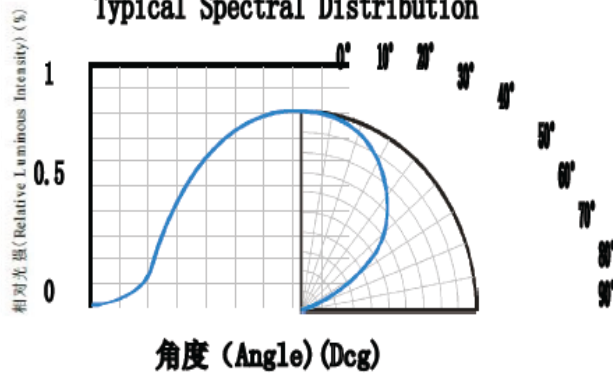
(Ambient Temperature) (°C)

Relative Spectral Distribution

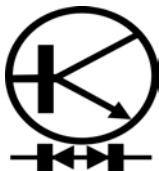


波长 (Wavelength) (nm)

Typical Spectral Distribution



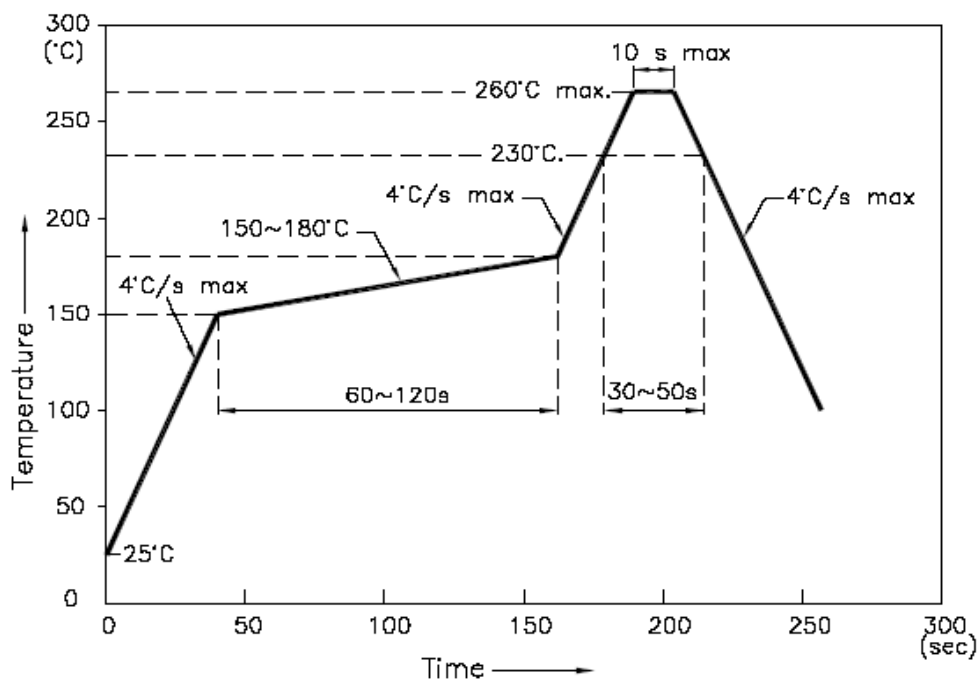
角度 (Angle) (Deg)



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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 : $5^{\circ}\text{C} \sim 30^{\circ}\text{C}$, 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 : $60^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 15hrs. |

■ Reflow Temp/Time



NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (\pm 5^{\circ}\text{C})$. the maximum soldering temperature should be limited to 260°C .
2. dont cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.



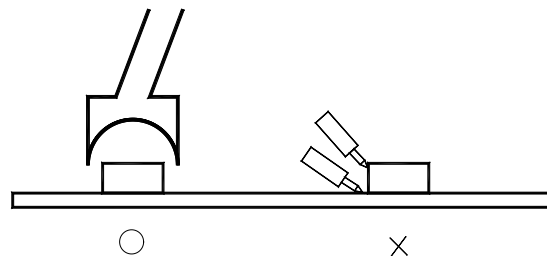
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■ Soldering iron

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter ($+10^\circ\text{C} \rightarrow -1\text{sec}$). Power dissipation of iron should be smaller than 20W, and temperatures should be controllable. Surface temperature of the device should be under 230°C .

■ Rework

1. Customer must finish rework within 5 sec under 260°C .
2. The head of iron can not 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.

■ Packaging specifications

