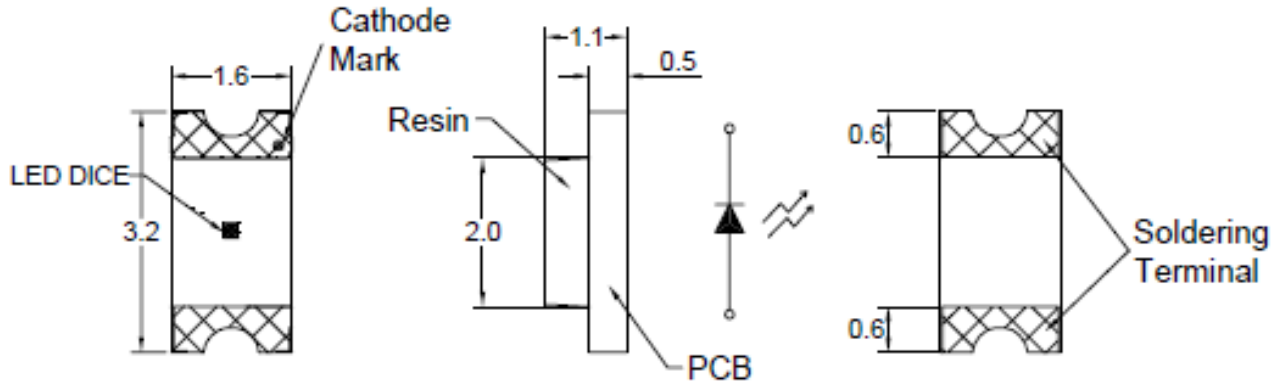


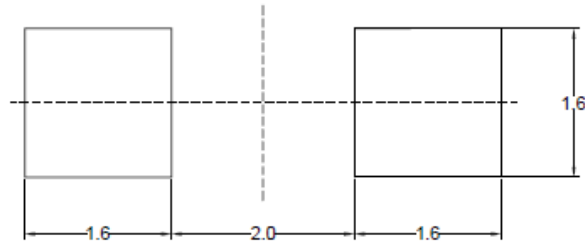
SPECIFICATIONS **CS126AY1C**

PACKAGE OUTLINES



- Notes:
1. All dimensions are in millimeters (inches);
 2. Tolerances are ± 0.1 mm unless otherwise noted.

Recommended Solder Pad



Note : The tolerances unless mentioned is ± 0.1 mm, Angle ± 0.5 . Unit=mm.

| Part Number | Chip Material | Color of Emission | Lens Type | Viewing Angle |
|-------------|---------------|-------------------|-------------|---------------|
| CS126AY1C | GaAs/GaP | Yellow | Water Clear | 150° |



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

| Parameter | Symbol | Value | Unit |
|---|------------------|-------------------------|------|
| Forward current | I _f | 25 | mA |
| Reverse current @ 5V | I _r | 10 | μA |
| Power dissipation | P _d | 65 | mW |
| Operating temperature range | T _{opr} | -40~+85 | °C |
| Storage temperature range | T _{stg} | -40~+90 | °C |
| Peak pulsing current (1/10 duty f= 10KHz) | I _{fp} | 65 | mA |
| Soldering Temperature | T _{SOL} | Max 260°C for 5 sec Max | |

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

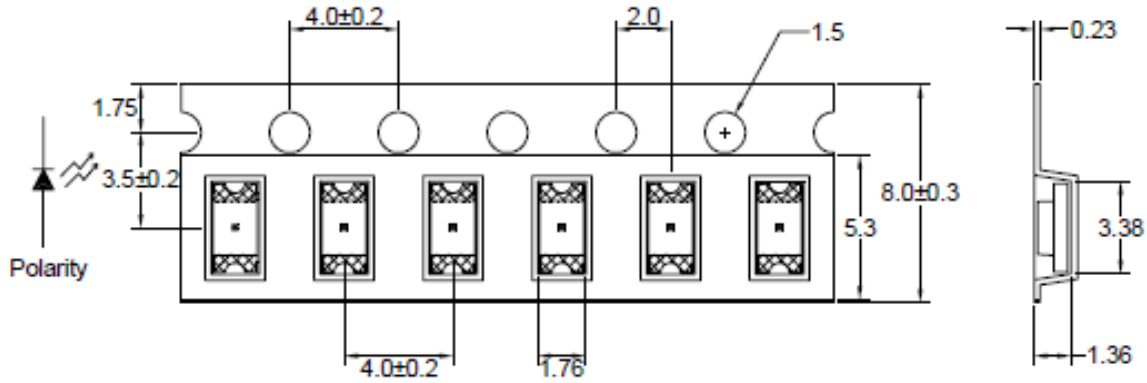
| Parameter | Symbol | Test Condition | Value | | | Unit |
|-------------------------------------|-------------------|-----------------------|-------|-----|-----|------|
| | | | Min | Typ | Max | |
| Wavelength at peak emission | λ _{peak} | I _F = 20mA | - | 585 | - | nm |
| Spectral half bandwidth | Δλ | I _F = 20mA | - | 35 | - | nm |
| Dominant wavelength | λ _D | I _F = 20mA | - | 588 | - | nm |
| Forward Voltage | V _f | I _F = 20mA | 1.7 | - | 2.6 | V |
| Luminous intensity | I _v | I _F = 20mA | 3.2 | 6.0 | - | mcd |
| Viewing angle at 50% I _v | 2Θ ½ | I _F = 20mA | - | 150 | | Deg |

*NOTE: 1. The forward voltage data did not including ±0.1V tolerance 2. The luminous intensity data did not including ±15% tolerance



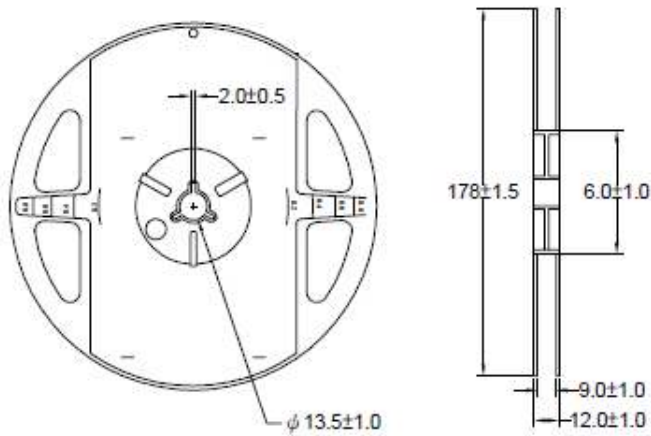
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DIMENSIONS OF TAPE (Unit: mm)



NOTE: The tolerances unless mentioned is ± 0.1 mm, Angle ± 0.5 . Unit = mm.

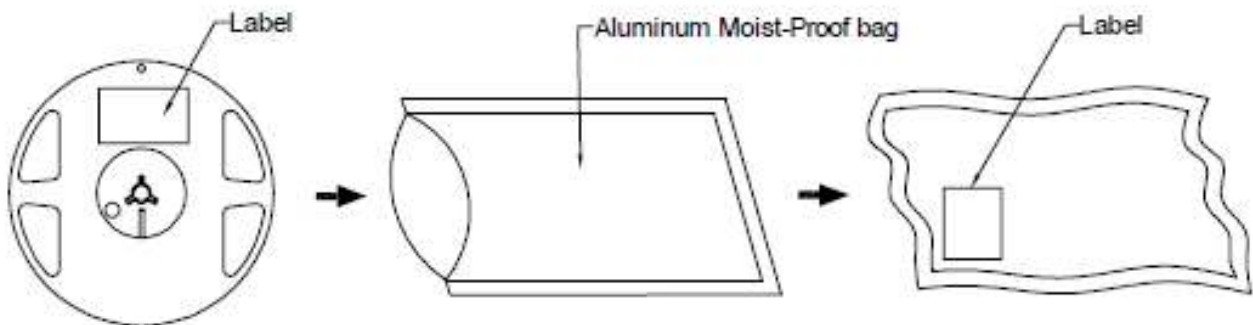
REEL DIMENSIONS



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.
4. 3,000pcs/Reel

PACKAGING SPECIFICATION



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

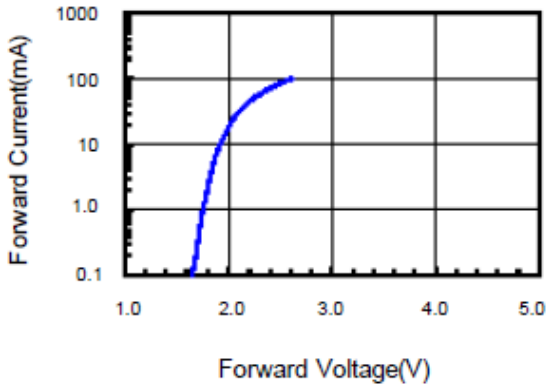


Fig.2 Relative Intensity vs. Forward Current

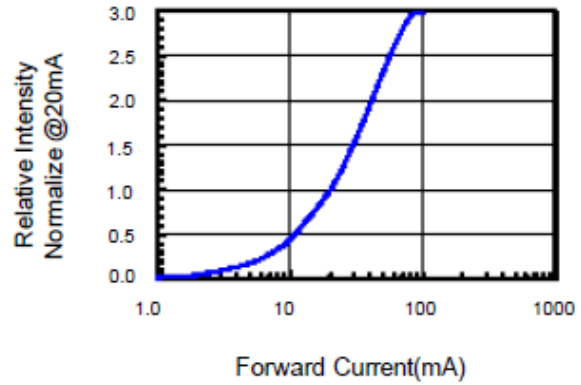


Fig.3 Forward Voltage vs. Temperature

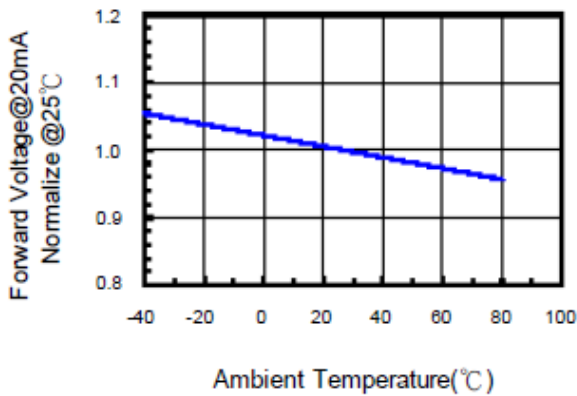


Fig.4 Relative Intensity vs. Temperature

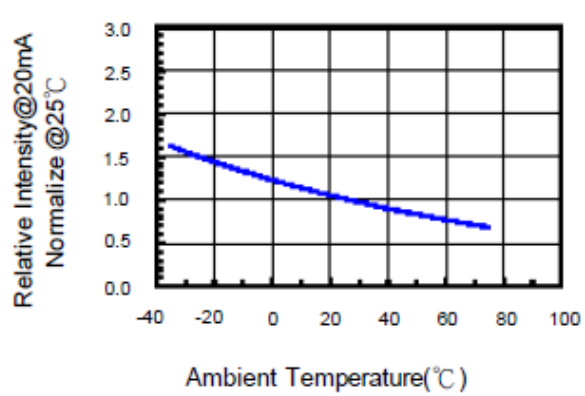


Fig.5 Relative Intensity vs. Wavelength

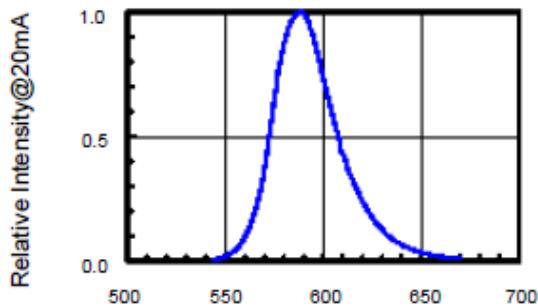
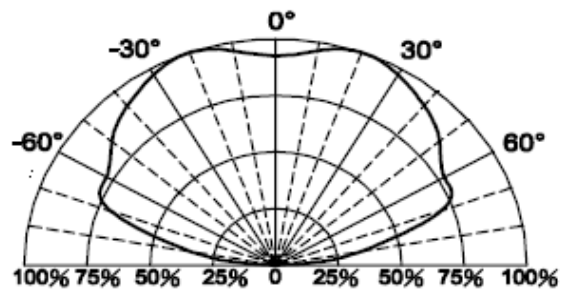


Fig.6 Directive Radiation



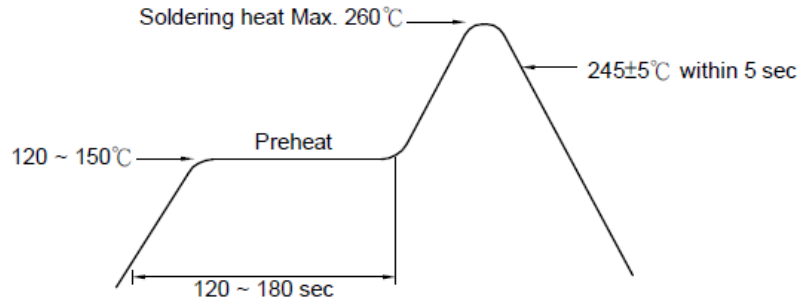
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SOLDERING CONDITIONS – LAMP TYPE LED

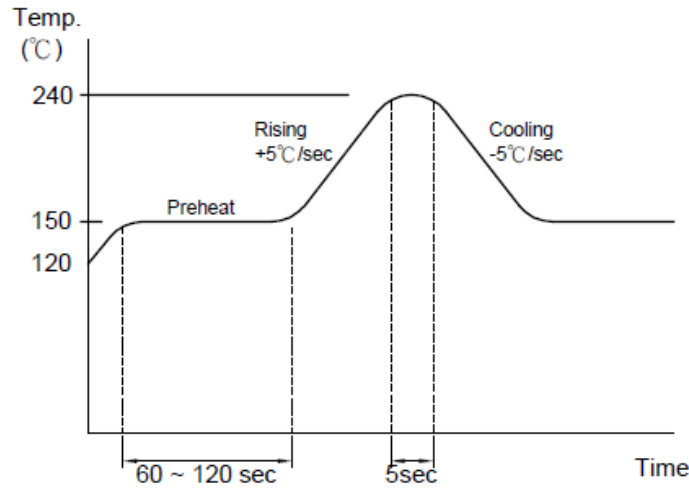
1. Hand Solder

Basic spec is $\leq 280^{\circ}\text{C}$ 3 sec one time only.

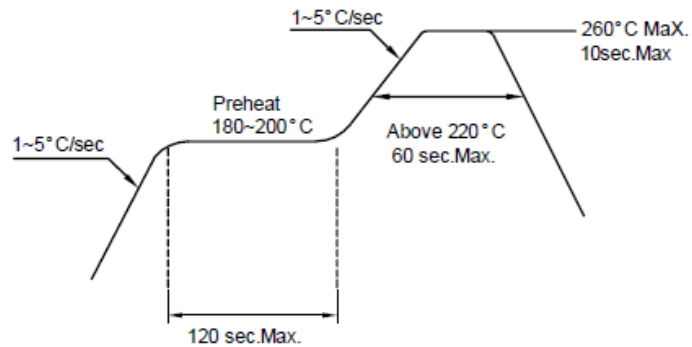
2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.



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