

Kingbright

SUBMINIATURE SOLID STATE LAMP

AM2520YC08

YELLOW

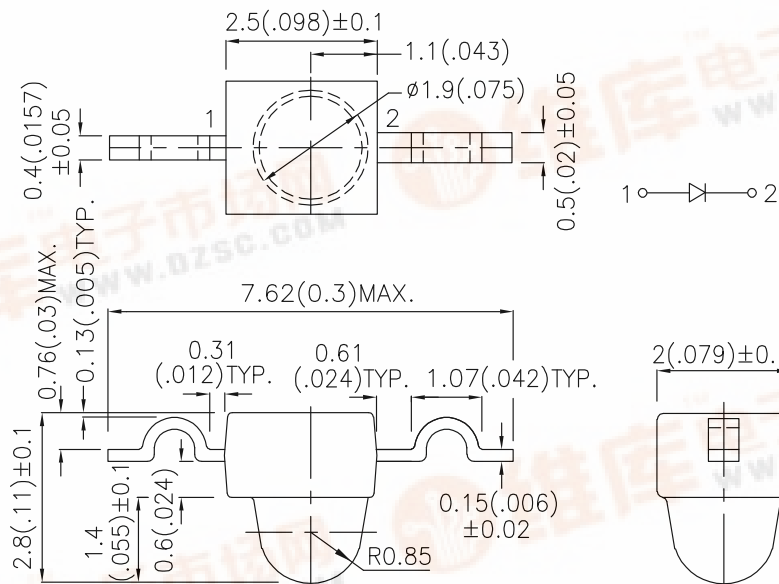
Features

- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- YOKE LEAD.
- LONG LIFE - SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- PACKAGE : 1000PCS / REEL.
- RoHS COMPLIANT.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|------------|--------------------|-------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| AM2520YC08 | YELLOW (GaAsP/GaP) | WATER CLEAR | 10 | 30 | 20° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Yellow | 590 | | nm | IF=20mA |
| λD | Dominant Wavelength | Yellow | 588 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Yellow | 35 | | nm | IF=20mA |
| C | Capacitance | Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Yellow | 2.1 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Yellow | | 10 | uA | VR = 5V |

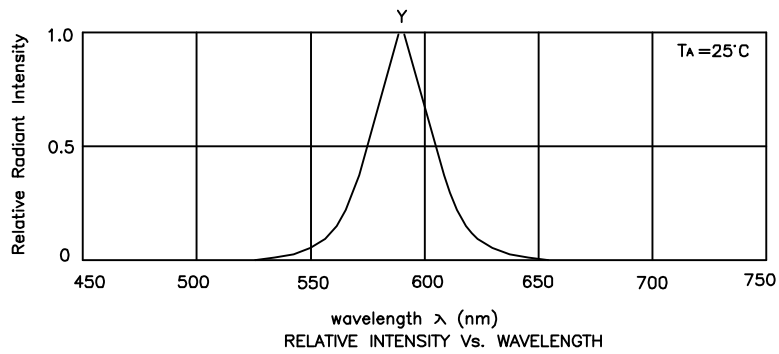
Absolute Maximum Ratings at TA=25°C

| Parameter | Yellow | Units |
|---------------------------------|----------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating / Storage Temperature | -40°C To +85°C | |

Note:

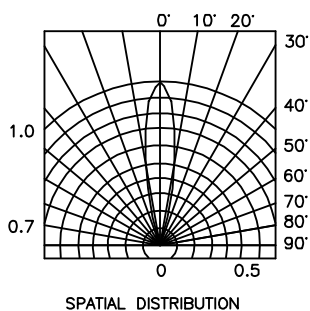
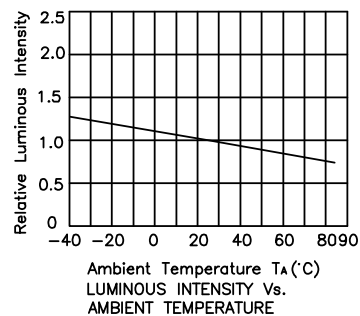
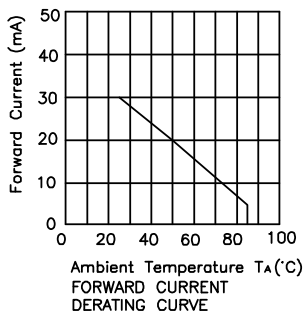
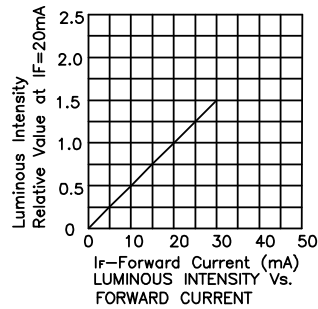
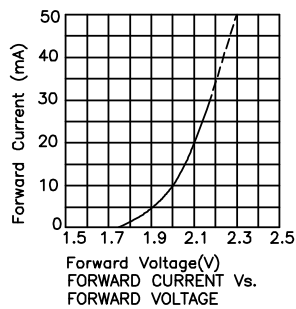
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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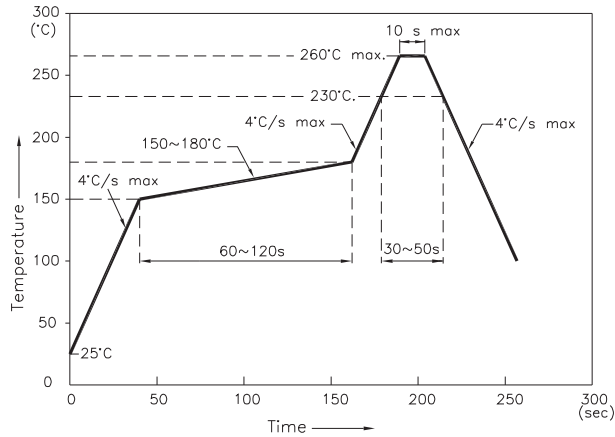
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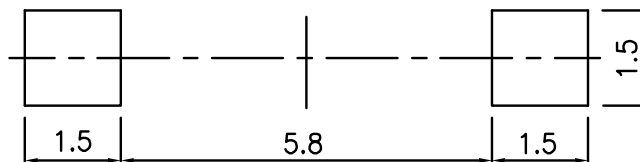
Reflow Soldering Profile For Lead-free SMT Process.



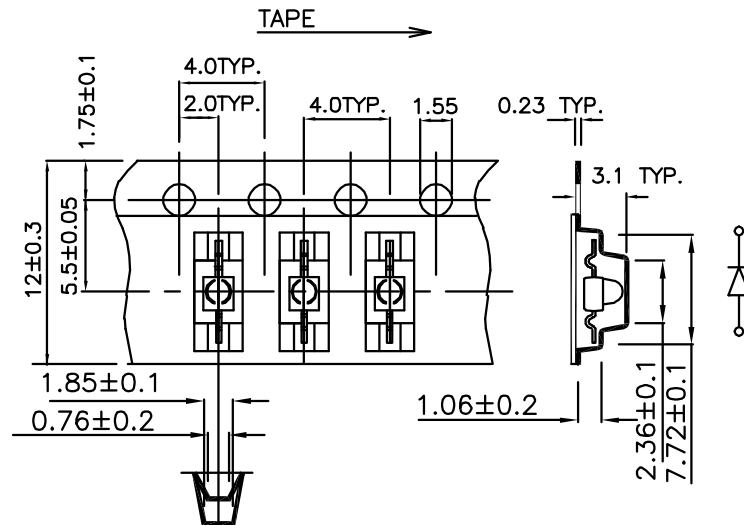
NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
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.

Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)



Remarks:

If there is sorting requirement (eg. forward voltage, luminous intensity or wavelength), the condition as follows:

1. Wavelength: +/-1nm (Test condition is based on the sorting standard).
2. Luminous intensity: +/-15% (Test condition is based on the sorting standard).
3. Forward voltage: +/-0.1V (Test condition is based on the sorting standard).