

■ **Features**

- 0.2 inch single color display
- Long lifetime operation
- IC compatible
- Low power dissipation
- Black surface with white segment
- Number of pin: 10

■ **Applications**






- Indicating device
- Overflow indication

■ **Absolute Maximum Rating** (Ta=25°C)

| Item   | Symbol          | Value      |     | Unit |
|--|-----------------|------------|-----|------|
|  |                 | YG/Y/R     | B/G |      |
| DC Forward Current                                   | I <sub>F</sub>  | 25         | 25  | mA   |
| Pulse Forward Current#                               | I <sub>FP</sub> | 100        | 100 | mA   |
| Reverse Voltage                                      | V <sub>R</sub>  | 5          | 5   | V    |
| Power Dissipation                                    | P <sub>t</sub>  | 62.5       | 72  | mW   |
| Operating Temperature                                | Topr            | -30 ~ +70  |     | °C   |
| Storage Temperature                                  | Tstg            | -40~ +85   |     | °C   |
| Lead Soldering Temperature(1.6mm from seating plane) | Tsol            | 260°C/5sec |     | °C   |

#Pulse width Max.10ms Duty ratio max 1/10

■ **Electrical -Optical Characteristics** (Ta=25°C)

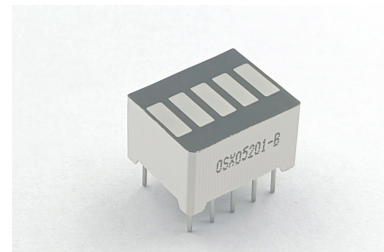
| Part Number | Color        |    |   | V <sub>F</sub> (V)*  |      |      | I <sub>R</sub> (μA) | I <sub>v</sub> (mcd)* |      |                      | λD(nm)* |      |      |
|-------------|--------------|----|---|----------------------|------|------|---------------------|-----------------------|------|----------------------|---------|------|------|
|             |              |    |   | Min.                 | Typ. | Max. | Max.                | Min.                  | Typ. | Max.                 | Min.    | Typ. | Max. |
|             |              |    |   | I <sub>F</sub> =20mA |      |      | V <sub>R</sub> =5V  |                       |      | I <sub>F</sub> =20mA |         |      |      |
| OSX05201-B  | Blue         | B  |  | -                    | 3.1  | 3.6  | 20                  | -                     | 50   | -                    | -       | 465  | -    |
| OSX05201-G  | Pure Green   | G  |  | -                    | 3.1  | 3.6  | 20                  | -                     | 200  | -                    | -       | 525  | -    |
| OSX05201-YG | Yellow Green | YG |  | -                    | 2.1  | 2.5  | 20                  | -                     | 35   | -                    | -       | 570  | -    |
| OSX05201-Y  | Yellow       | Y  |  | -                    | 2.1  | 2.5  | 20                  | -                     | 35   | -                    | -       | 590  | -    |
| OSX05201-R  | Red          | R  |  | -                    | 2.1  | 2.5  | 20                  | -                     | 35   | -                    | -       | 630  | -    |

\*1 Tolerance of measurements of dominant wavelength is +1nm

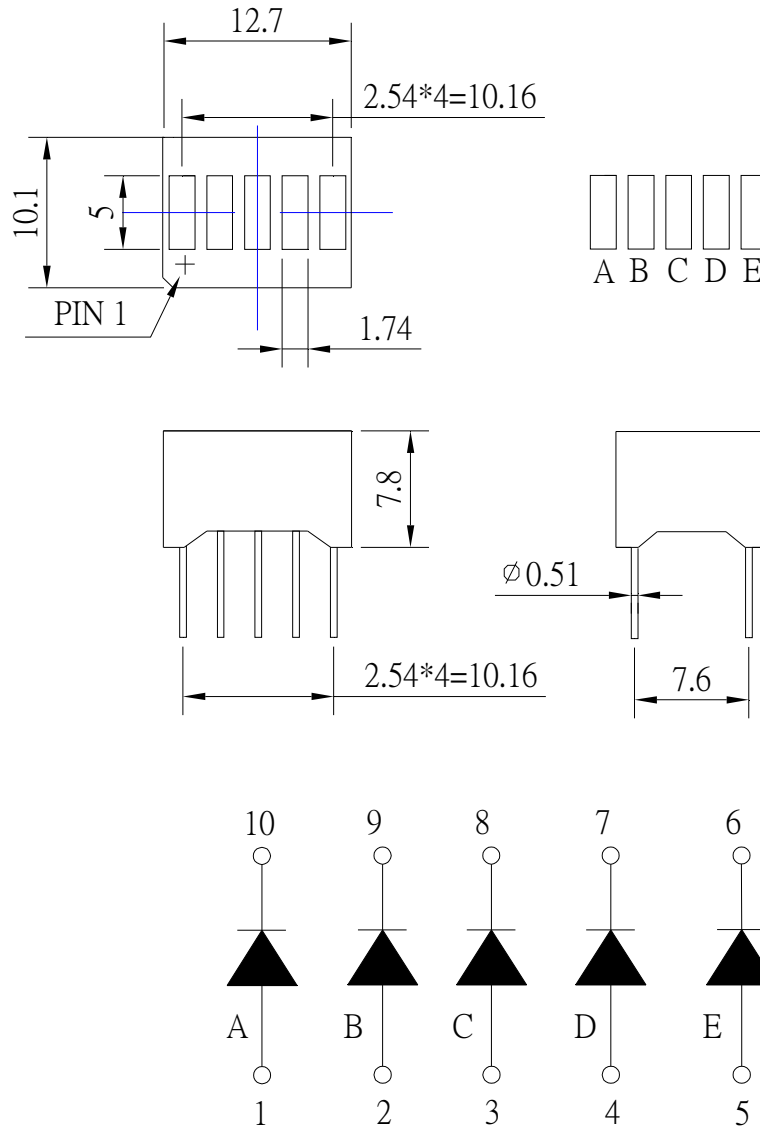
\*2 Tolerance of measurements of luminous intensity is +15%

\*3 Tolerance of measurements of forward voltage is±0.1V

■ **Photo**



■ Package Dimensions and Pin Function



Note:

1, Unit : mm ( Tolerance:  $\pm 0.25$  mm unless otherwise noted)

2, The slope angle of any PIN may be  $\pm 5.0^\circ$  Max

## LAMP APPLICATION (PB FREE SOLDERJING)

Apply to Display (DIP) SERIES.

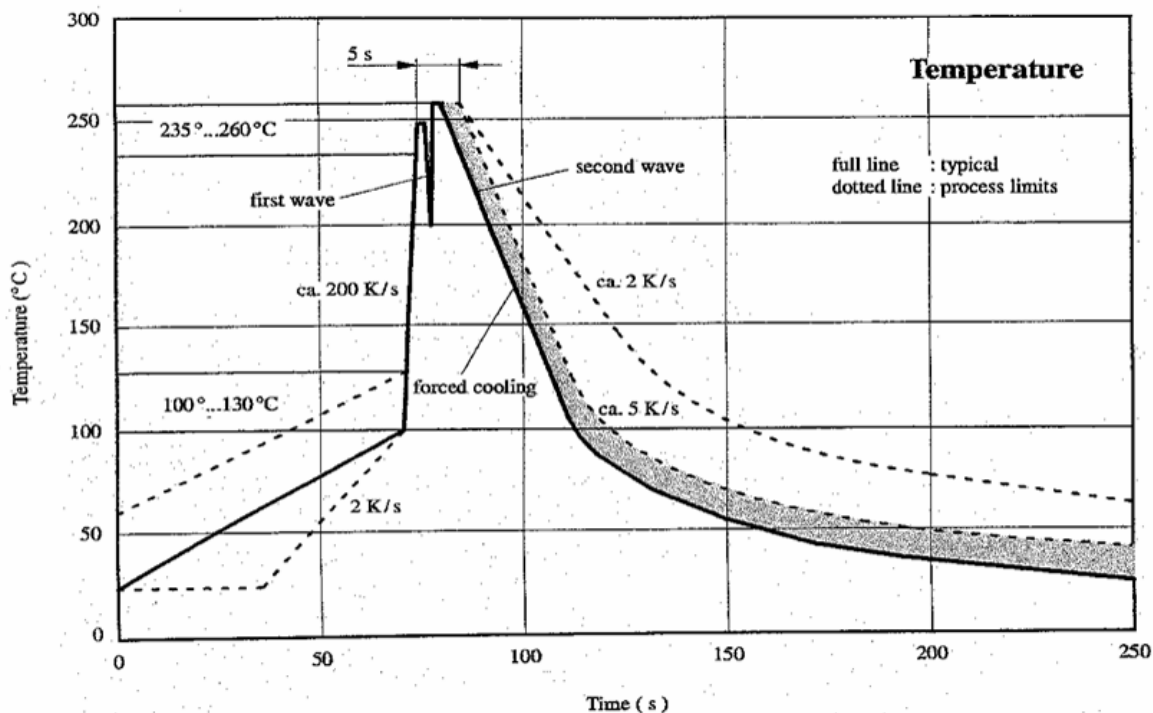
### Description:

(1) Manual soldering (Solder Iron)

- (1.1) Temperature at tip of the iron: 350°C Max.
- (1.2) It's banned to load any stress on the resin during soldering.
- (1.3) Soldering time: 3sec.Max.(one time only.)
- (1.4) Leave 3mm of minimum distance from the base of the epoxy.

(2) Dip Soldering (Wave Soldering-Solder Bath)

- (2.1) Leave 3mm of minimum distance from the base of the epoxy.  
Soldering beyond the base of the tie bar (stand off) is recommended.
- (2.2) When soldering, do not put stress on the Display during heating.
- (2.3) Cutting the lead frames at high temperatures may cause LED failure.
- (2.4) Never take next process until the component is cooled down to room temperature after reflow.
- (2.5) After soldering, do not warp the circuit board.
- (2.6) The recommended dip soldering profile is the following.



Wave soldering of double wave optodevices

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