

## ■ Features

- 0.53 Inch 14-Segment Two Digit Display
- Long lifetime operation
- IC compatible
- Low power dissipation
- Gray surface & white segment or dot
- Number of pins:18

## ■ Applications

- Counting device
- Clock

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

| Item                                                 | Symbol          | Value      |       | Unit |
|------------------------------------------------------|-----------------|------------|-------|------|
|                                                      |                 | RA/R/YG/Y  | B/G/W |      |
| DC Forward Current                                   | I <sub>F</sub>  | 20         | 20    | 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>  | 50         | 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 |      |      |                                    |      |      |
| OSK20531-IW(LW)   | White        | W  |                                                                                     | -                    | 3.3  | 3.6  | 20                  | -                    | 65   | -    | X=0.27,Y=0.28<br>(CCT:8000-18000K) |      |      |
| OSK20531-IB(LB)   | Blue         | B  |  | -                    | 3.3  | 3.6  | 20                  | -                    | 50   | -    | 460                                | 470  | 475  |
| OSK20531-IG(LG)   | Pure Green   | G  |  | -                    | 3.3  | 3.6  | 20                  | -                    | 200  | -    | 515                                | 525  | 530  |
| OSK20531-IYG(LYG) | Yellow Green | YG |  | -                    | 2.2  | 2.6  | 20                  | -                    | 12   | -    | 565                                | 570  | 575  |
| OSK20531-IY(LY)   | Yellow       | Y  |  | -                    | 2.1  | 2.5  | 20                  | -                    | 60   | -    | 585                                | 590  | 595  |
| OSK20531-IR(LR)   | Red          | R  |  | -                    | 2.1  | 2.5  | 20                  | -                    | 20   | -    | 625                                | 630  | 640  |
| OSK20531-IRA(LRA) | High Red     | RA |  | -                    | 2.1  | 2.5  | 20                  | -                    | 100  | -    | 620                                | 625  | 630  |

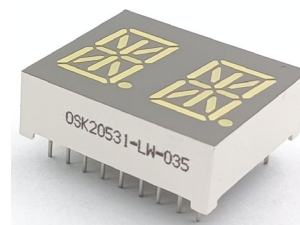
\*1 Tolerance of measurements of chromaticity coordinate is ±10%

\*2 Tolerance of measurements of dominant wavelength is ±1nm

\*3 Tolerance of measurements of luminous intensity is +15%

\*4 Tolerance of measurements of forward voltage is ±0.1V

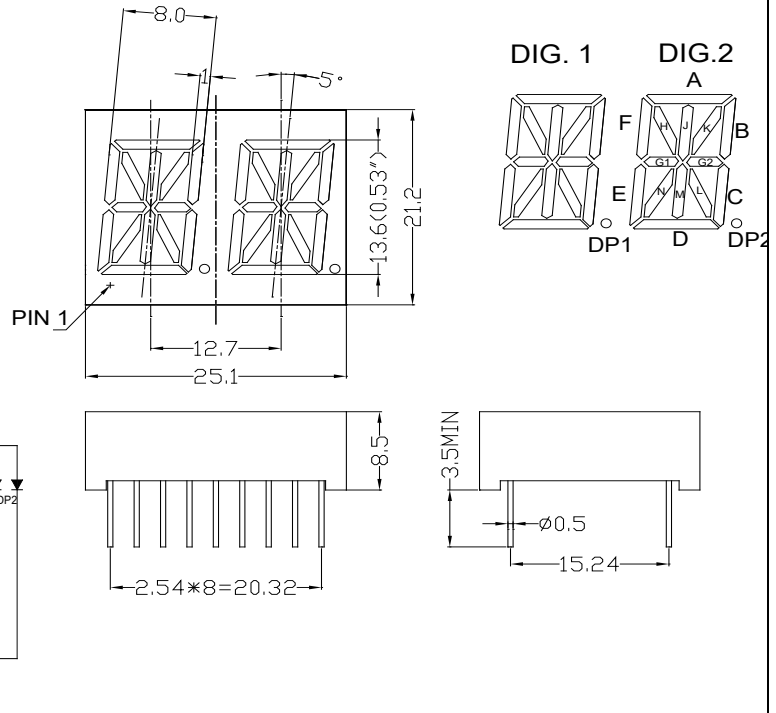
## ■ Photo



■ Package Dimensions and Pin Function

**OSK20531-IX  
(Common Anode type)**

Note:  
Unit : mm( Tolerance:±0.25mm unless  
otherwise noted)



**OSK20531-LX  
(Common Cathode type)**

Note:  
Unit : mm( Tolerance:±0.25mm unless  
otherwise noted)

