

■ **Features**

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

■ **Applications**

- Counting device
- Clock

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

■ **Photo**



| Item | Symbol | Value | | Unit |
|--|------------------|-------------|-------|------|
| | | RA/R/YG/Y/O | B/G/W | |
| DC Forward Current | I _F | 20 | 20 | mA |
| Pulse Forward Current# | I _{FP} | 100 | 100 | mA |
| Reverse Voltage | V _R | 5 | 5 | V |
| Power Dissipation | P _t | 50 | 72 | mW |
| Operating Temperature | T _{opr} | -30 ~ +70 | | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | | °C |
| Lead Soldering Temperature(1.6mm from seating plane) | T _{sol} | 260°C/5sec | | °C |

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

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

| Part Number | Color | | V _F (V) | | | I _R (μA) | I _v (mcd) | | | λD(nm) | | |
|-------------------|--------------------|----|----------------------|------|------|---------------------|----------------------|------|------|------------------------------------|------|------|
| | | | Min. | Typ. | Max. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. |
| | | | I _F =20mA | | | V _R =5V | I _F =20mA | | | | | |
| OSL20561-IW(LW) | White | W | - | 3.1 | 3.6 | 20 | - | 65 | - | X:0.2,7,Y0.28 (CCT:8500-18000K) | | |
| OSL20561-IB(LB) | Blue | B | - | 3.1 | 3.6 | 20 | - | 50 | - | 460 | 470 | 475 |
| OSL20561-IG(LG) | Pure Green | G | - | 3.1 | 3.6 | 20 | - | 200 | - | 515 | 520 | 530 |
| OSL20561-IYG(LYG) | Yellow Green | YG | - | 2.1 | 2.5 | 20 | - | 12 | - | 565 | 570 | 575 |
| OSL20561-IY(LY) | Yellow | Y | - | 2.1 | 2.5 | 20 | - | 60 | - | 585 | 590 | 595 |
| OSL20561-IO(LO) | Orange | O | - | 2.1 | 2.5 | 20 | - | 70 | - | 600 | 605 | 610 |
| OSL20561-IR(LR) | Red | R | - | 2.1 | 2.5 | 20 | - | 26 | - | 625 | 630 | 640 |
| OSL20561-IRA(LRA) | High Luminance Red | RA | - | 2.1 | 2.5 | 20 | - | 100 | - | 620 | 625 | 630 |

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

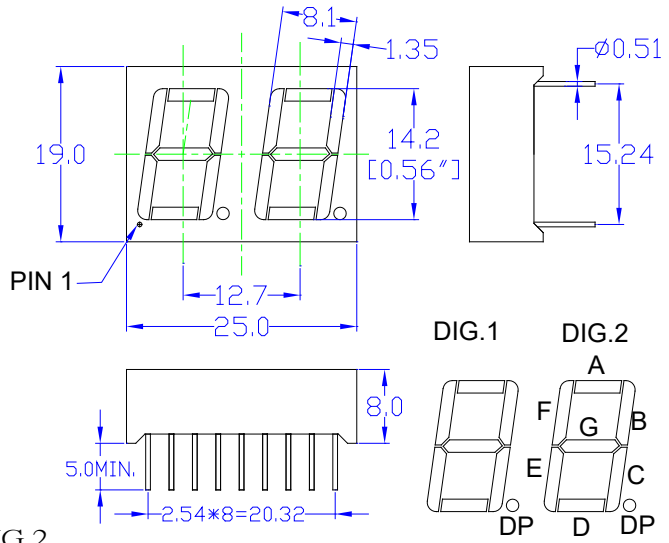
*2 Tolerance of measurements of dominant wavelength is ±1nm

*3 Tolerance of measurements of luminous intensity is ±15%

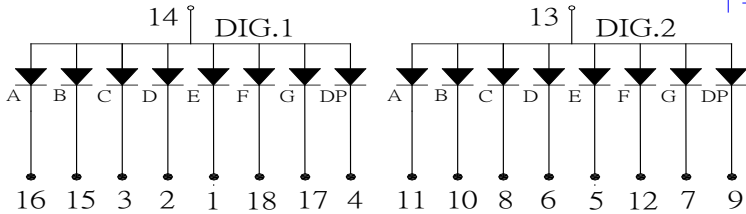
*4 Tolerance of measurements of forward voltage is ±0.1V

■ Package Dimensions and Pin Function

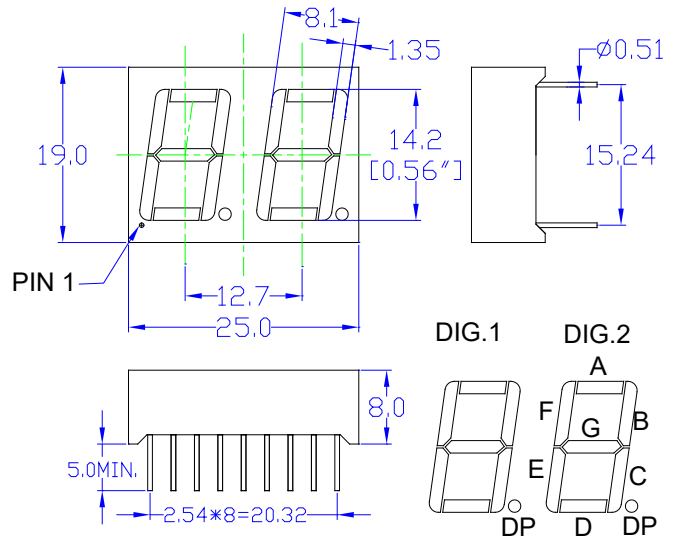
**OSL20561-IX
(Common Anode type)**



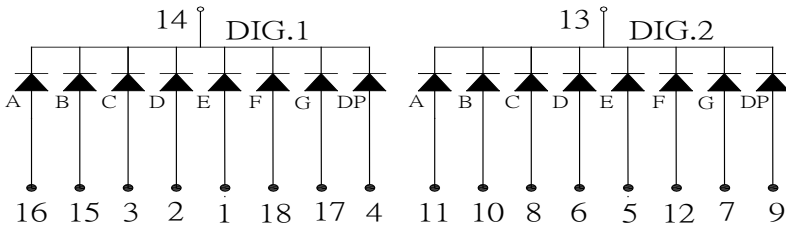
Note:
1, Unit : mm (Tolerance: ±0.25mm unless otherwise noted)
2, The slope angle of any PIN may be ±5.0° Max



**OSL20561-LX
(Common Cathode type)**



Note:
1, Unit : mm (Tolerance: ±0.25mm unless otherwise noted)
2, The slope angle of any PIN may be ±5.0° Max



| |
|--|
| 0.56 Inch Two Digit Display |
| OSL20561-IX (Common Anode type) |
| OSL20561-LX (Common Cathode type) |

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.

