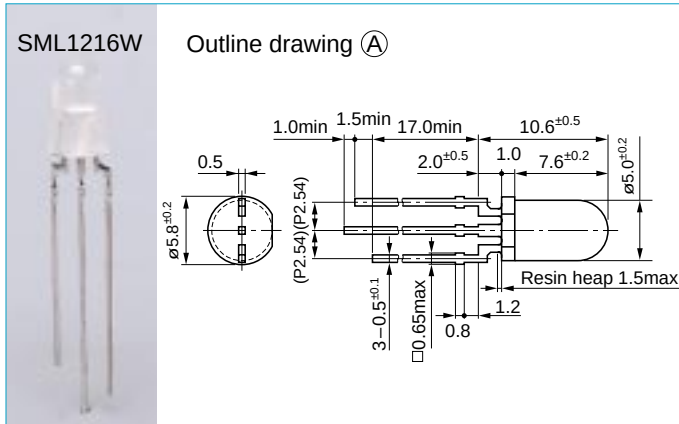
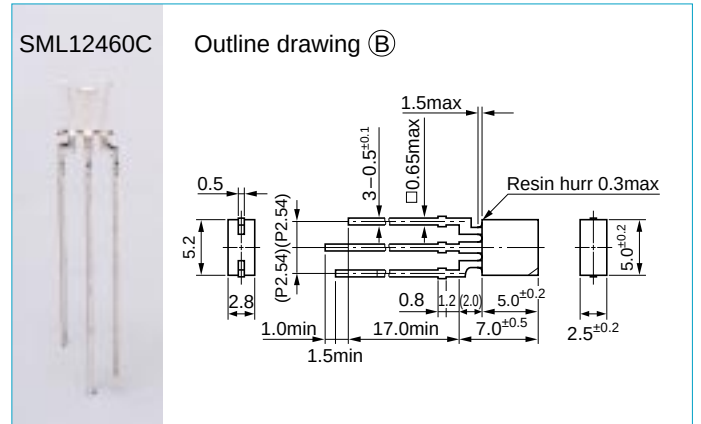


## Bicolor LEDs

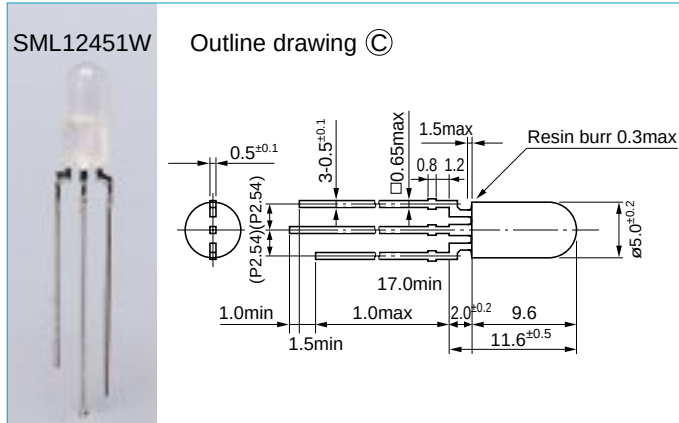
### ■ SML1016 series (Standard type)



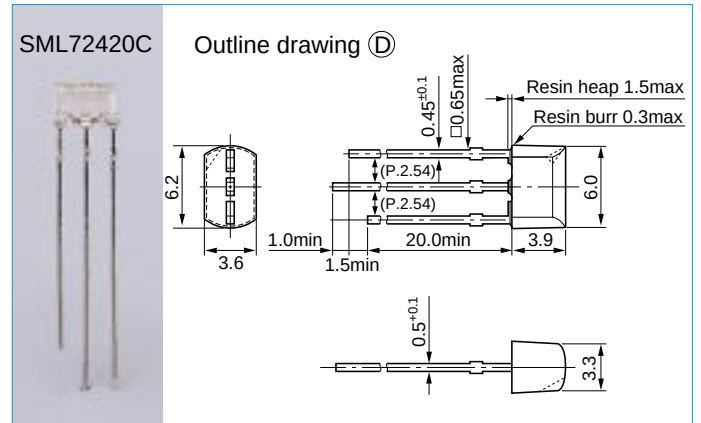
### ■ SML10060 series (Square type)



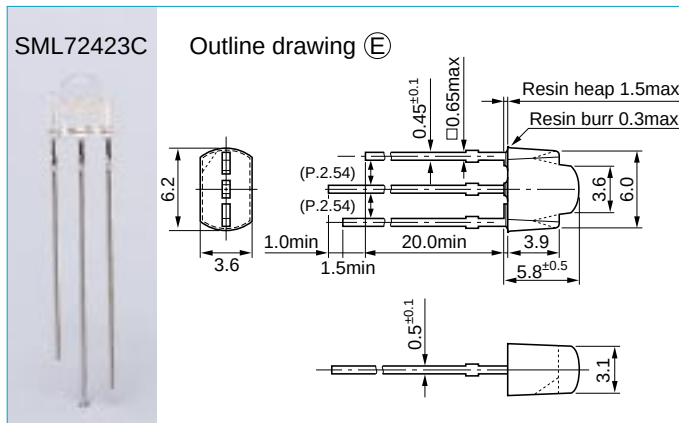
### ■ SML10051 series (Tricolor type)



### ■ SML70020 series (Flat lens type for contact mounting)



### ■ SML70023 series (Bow-lens type for contact mounting)

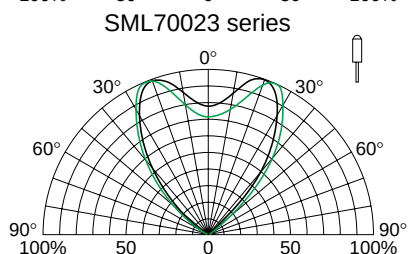
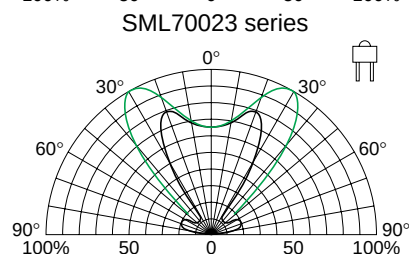
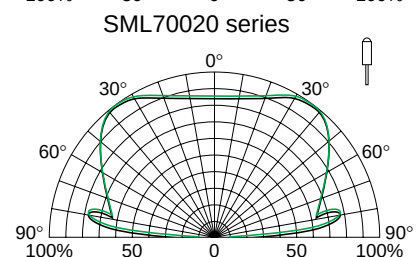
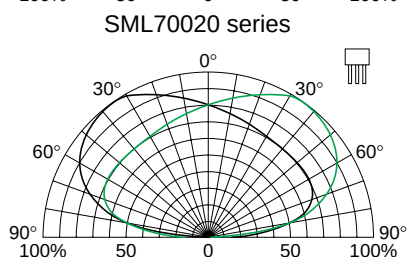
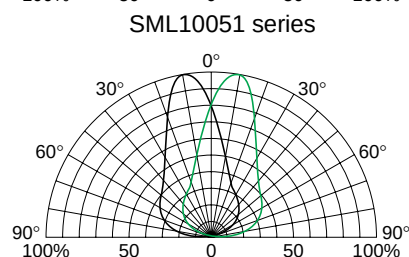
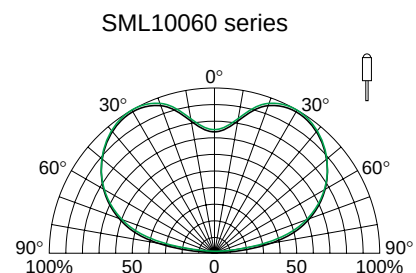
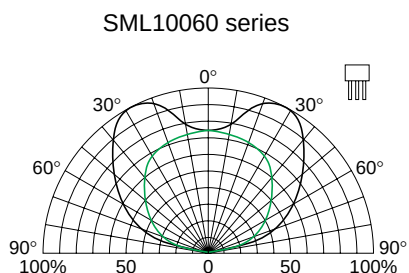
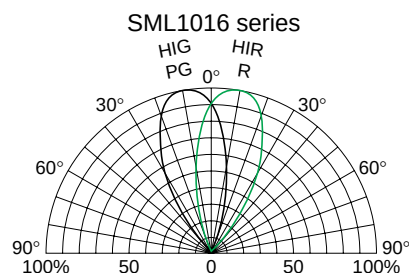


■ External dimensions: Unit: mm Tolerance:  $\pm 0.3$

### Absolute maximum ratings (Ta=25°C)

| Symbol          | Unit | Ratings     |
|-----------------|------|-------------|
| P <sub>D</sub>  | mW   | 75          |
| I <sub>F</sub>  | mA   | 100         |
| I <sub>FP</sub> | mA   | 100         |
| V <sub>R</sub>  | V    | 4           |
| Top             | °C   | -30 to +85  |
| Tstg            | °C   | -30 to +100 |

## Viewing angle



## Electro-optical characteristics (Ta=25°C)

| Type No.                                  |            | Emitting color           | Electro-optical characteristics (Ta=25°C) |     |                               |                     |                              |                      |                               |                |     | Outline drawing |    |
|-------------------------------------------|------------|--------------------------|-------------------------------------------|-----|-------------------------------|---------------------|------------------------------|----------------------|-------------------------------|----------------|-----|-----------------|----|
|                                           |            |                          | V <sub>F</sub> (V)                        |     | Condition I <sub>F</sub> (mA) | I <sub>R</sub> (μA) | Condition V <sub>R</sub> (V) | I <sub>V</sub> (mcd) | Condition I <sub>F</sub> (mA) | λ <sub>p</sub> | Δλ  |                 |    |
|                                           |            |                          | typ                                       | max |                               | max                 |                              | typ                  |                               | (nm) typ       |     |                 |    |
| SML1016 series                            | SML1216W   | High intensity red       | 1.9                                       | 2.5 | 10                            | 10                  | 4                            | 40                   | 20                            | 630            | 35  | Ⓐ               |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 560            | 20  |                 |    |
|                                           | SML1816W   | Amber                    | 1.9                                       |     |                               |                     |                              | 40                   |                               | 610            | 35  |                 |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 560            | 20  |                 |    |
|                                           | SML19416W  | Orange                   | 1.9                                       |     |                               |                     |                              | 40                   |                               | 587            | 33  |                 |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 560            | 20  |                 |    |
| SML10060 series                           | SML12460C  | High intensity red       | 1.9                                       | 2.5 | 10                            | 10                  | 4                            | 10                   | 20                            | 630            | 35  | Ⓑ               |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 20             | 560 |                 | 20 |
|                                           | SML19460C  | Orange                   | 1.9                                       |     |                               |                     |                              | 10                   |                               | 587            | 33  |                 |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 20             | 560 |                 | 20 |
| SML10051 series                           | SML12451W  | High intensity red       | 1.9                                       | 2.5 | 10                            | 10                  | 4                            | 40                   | 20                            | 630            | 35  | Ⓒ               |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 560            | 20  |                 |    |
|                                           | SML18451W  | Amber                    | 1.9                                       |     |                               |                     |                              | 40                   |                               | 610            | 35  |                 |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 560            | 20  |                 |    |
| Anode common series                       | SML16760CN | Ultra-high intensity red | 1.7                                       | 10  | 10                            | 4                   | 20                           | 20                   | 660                           | 30             | Ⓑ   |                 |    |
|                                           |            | Yellow                   | 2.4                                       |     |                               |                     |                              |                      | 3.0                           | 570            |     | 40              |    |
|                                           | SML16751WN | Ultra-high intensity red | 1.7                                       |     |                               |                     | 2.2                          |                      | 50                            | 660            | 30  | Ⓒ               |    |
|                                           |            | Yellow                   | 2.4                                       |     |                               |                     |                              |                      |                               | 3.0            | 570 |                 | 40 |
| SML70020 series<br>(for contact mounting) | SML72420C  | High intensity red       | 1.9                                       | 2.5 | 10                            | 10                  | 4                            | 10                   | 20                            | 630            | 35  | Ⓓ               |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 20             | 560 |                 | 20 |
|                                           | SML78420C  | Amber                    | 1.9                                       |     |                               |                     |                              | 10                   |                               | 20             | 610 |                 | 35 |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               |                | 560 |                 | 20 |
|                                           | SML79420C  | Orange                   | 1.9                                       |     |                               |                     |                              | 10                   |                               | 20             | 587 |                 | 33 |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               |                | 560 |                 | 20 |
| SML70023 series<br>(for contact mounting) | SML72423C  | High intensity red       | 1.9                                       | 2.5 | 10                            | 10                  | 4                            | 10                   | 20                            | 630            | 35  | Ⓔ               |    |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               | 20             | 560 |                 | 20 |
|                                           | SML78423C  | Amber                    | 1.9                                       |     |                               |                     |                              | 10                   |                               | 20             | 610 |                 | 35 |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               |                | 560 |                 | 20 |
|                                           | SML79423C  | Orange                   | 1.9                                       |     |                               |                     |                              | 10                   |                               | 20             | 587 |                 | 33 |
|                                           |            | Green                    | 2.0                                       |     |                               |                     |                              |                      |                               |                | 560 |                 | 20 |

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