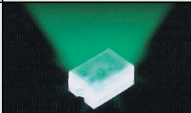
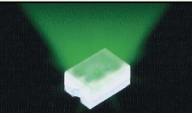

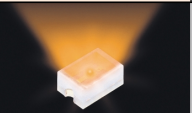




# Standard Type Chip LEDs with reflector

## SML-010 Series

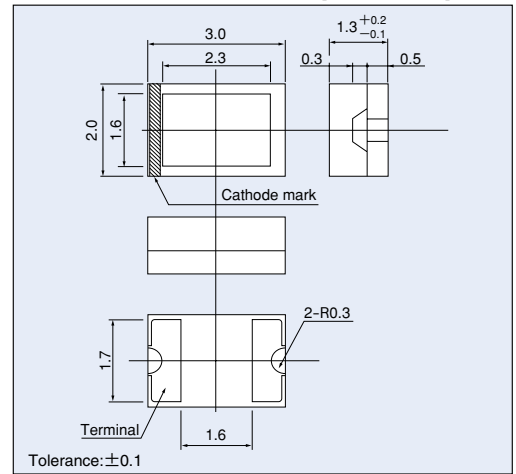
| Package Size (mm)               | Pure Green  | Green   | Yellow  | Orange   | Red   |   |
|---------------------------------|---|---|---|--|---|---|
|                                 | GaP   |   | GaAsP on GaP  |  | GaAlAs on GaAs  |   |
|                                 | 555nm   | 570nm   | 585nm   | 610nm  | 650nm   | 660nm   |
| 3216 (1206)<br>3.0x2.0<br>t=1.3 |  |  |  |  |  |  |
|                                 | SML-010PT   | SML-010MT   | SML-010YT   | SML-010DT  | SML-010VT   | SML-010LT   |

### Absolute Maximum Ratings (Ta=25°C)

| Part No.  | Emitting color | Power dissipation Pd (mW) | Forward current IF (mA) | Peak forward current * I <sub>FP</sub> (mA) | Reverse voltage VR (V) | Operating temperature T <sub>opr</sub> (°C) | Storage temperature T <sub>stg</sub> (°C) |
|-----------|----------------|---------------------------|-------------------------|---|------------------------|---|---|
| SML-010PT | Pure Green     | 70                        | 25                      | 60  | 4                      | -30 to +85                                  | -40 to +85                                |
| SML-010MT | Green          |                           |                         |   |                        |   |   |
| SML-010YT | Yellow         |                           |                         |   |                        |   |   |
| SML-010DT | Orange         |                           |                         |   |                        |   |   |
| SML-010VT | Red            |                           |                         |   |                        |   |   |
| SML-010LT | Red            | 75                        | 30                      | 75  |                        |   |   |

\* I<sub>FP</sub> measured under duty ≤ 1/5, pulse width ≤ 1ms.

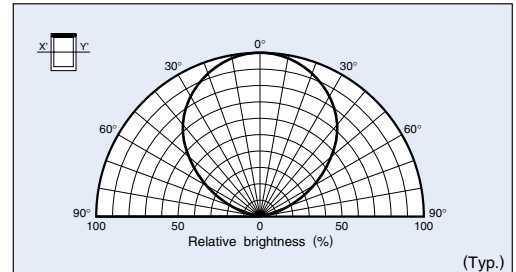
### External Dimensions (Unit : mm)



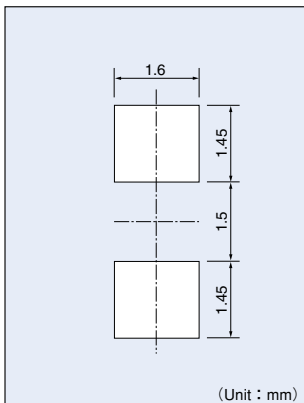
### Electrical Optical Characteristics (Ta=25°C)

| Part No.  | Resin Color       | Forward voltage VF |         | Reverse current IR |        | Light wavelength |                   |         | Brightness Iv |            |         |
|-----------|-------------------|--------------------|---------|--------------------|--------|------------------|-------------------|---------|---------------|------------|---------|
|           |                   | Typ. (V)           | IF (mA) | Max. (μA)          | VR (V) | Peak λp (nm)     | Half-wave Δλ (nm) | IF (mA) | Min. (mcd)    | Typ. (mcd) | IF (mA) |
| SML-010PT | Transparent Clear | 2.2                | 20      | 100                | 4      | 555              | 40                | 20      | 2.2           | 6.3        | 20      |
| SML-010MT |                   |                    |         |                    |        | 570              |                   |         | 5.6           | 25         |         |
| SML-010YT |                   |                    |         |                    |        | 585              |                   |         | 2.2           | 6.3        |         |
| SML-010DT |                   |                    |         |                    |        | 610              |                   |         | 3.6           | 10         |         |
| SML-010VT |                   |                    |         |                    |        | 650              |                   |         | 2.2           | 6.3        |         |
| SML-010LT |                   |                    |         |                    |        | 1.75             |                   |         | 660           | 5.6        |         |

### Directivity

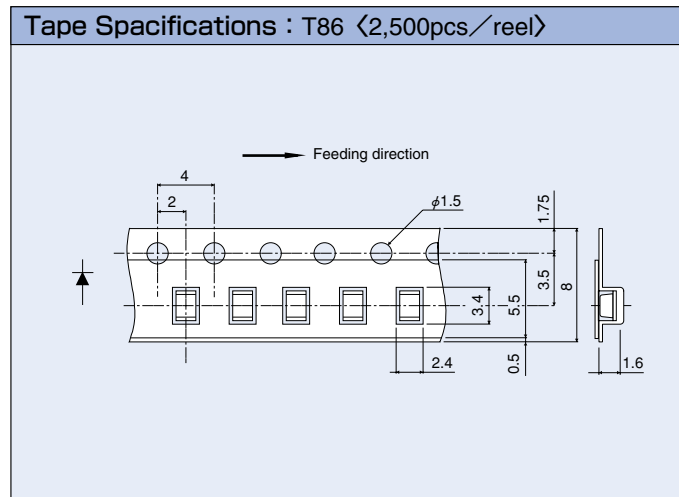


### Recommended Pad Layout

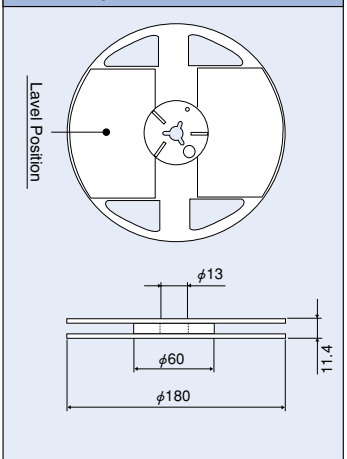


The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

### Packaging Specifications (Unit : mm)

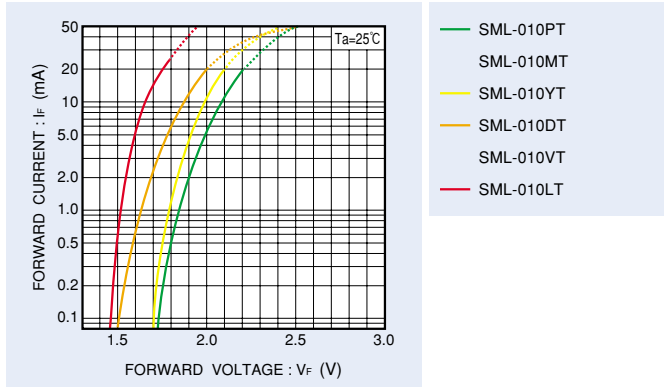


### Reel Specifications

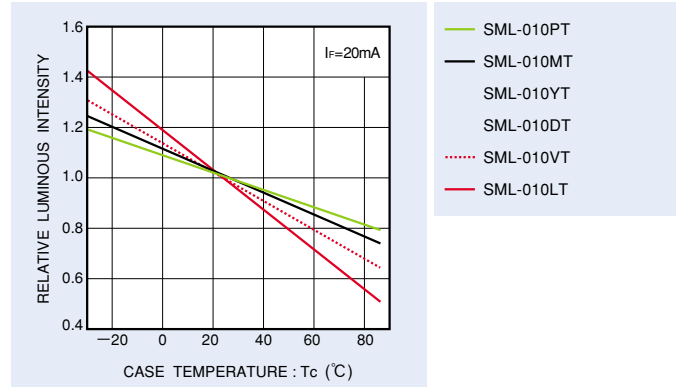


## Electrical Characteristic Curves

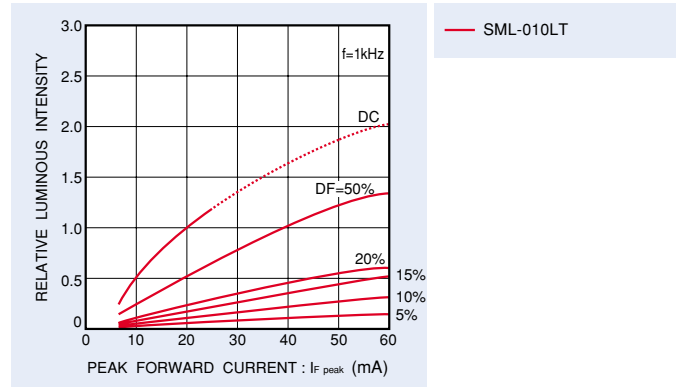
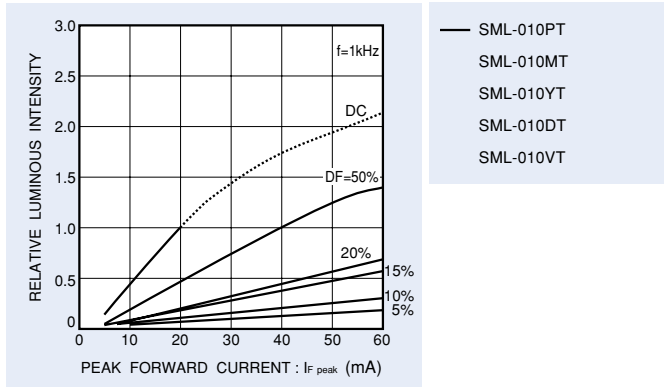
### Forward Current - Forward Voltage



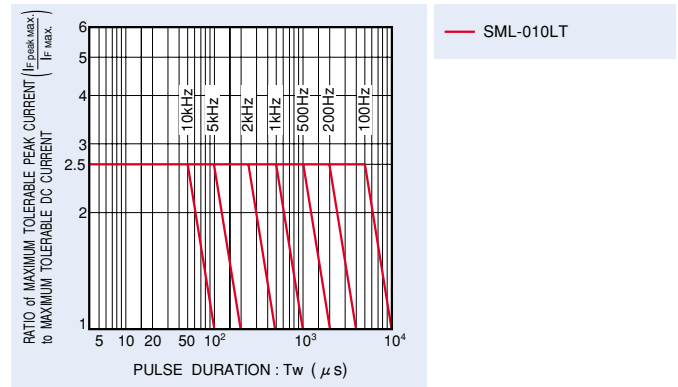
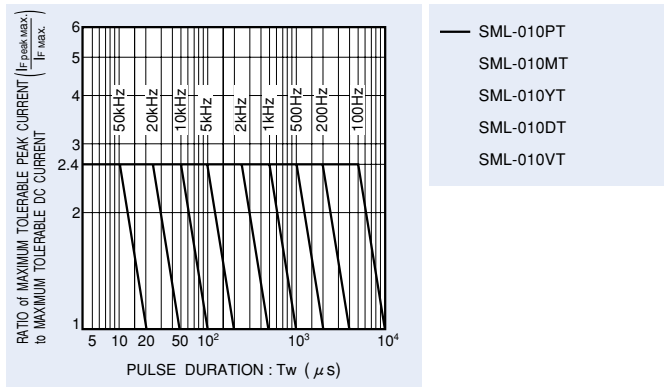
### Relative Luminous Intensity - Case Temperature



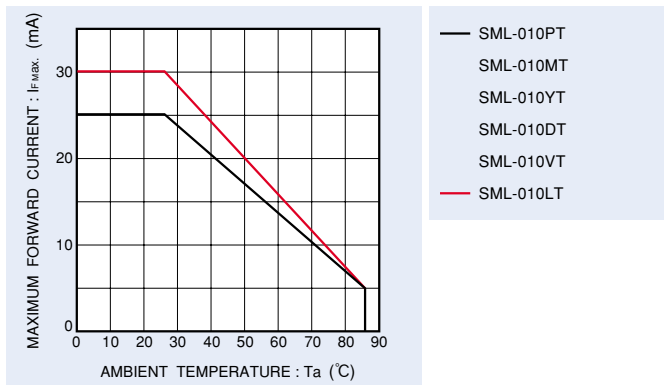
### Relative Luminous Intensity - Forward Current



### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Derating



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