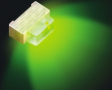


Standard Type Side view chip LEDs

SML-A10 Series

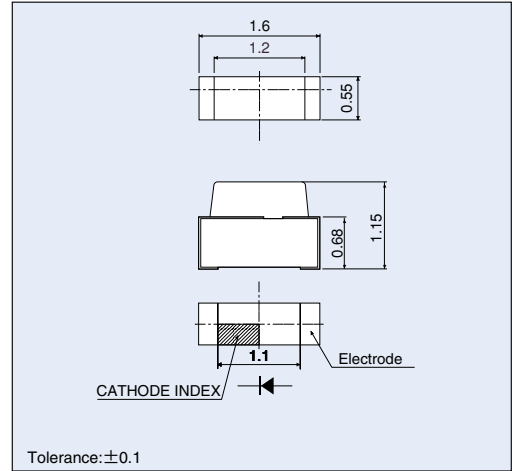
| | |
|--------------------------------------|---|
| Package Size (mm) | Green |
| | GaP |
| | 570nm |
| 1611 (0605) 1.6×1.15 t=0.55 |  |
| SML-A10MT | |

Absolute Maximum Ratings (Ta=25°C)

| Part No. | Emitting color | Power dissipation P _D (mW) | Forward current I _F (mA) | Peak forward current * I _{FP} (mA) | Reverse voltage V _R (V) | Operating temperature T _{opr} (°C) | Storage temperature T _{stg} (°C) |
|-----------|----------------|---------------------------------------|-------------------------------------|---|------------------------------------|---|---|
| SML-A10MT | Green | 55 | 20 | 60 | 4 | -30 to +85 | -40 to +85 |

* I_{FP} measured under duty ≤ 1/5, pulse width ≤ 1ms.

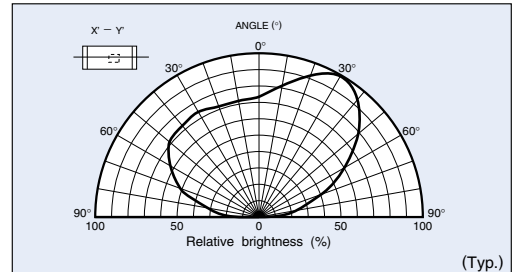
External Dimensions (Unit : mm)



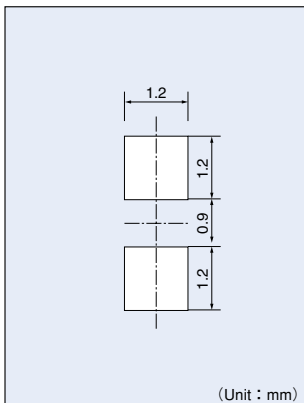
Electrical Optical Characteristics (Ta=25°C)

| Part No. | Resin Color | Forward voltage V _F | | Reverse current I _R | | Light wavelength | | | Brightness I _v | | |
|-----------|-------------------|--------------------------------|---------------------|--------------------------------|--------------------|--------------------------|-------------------|---------------------|---------------------------|------------|---------------------|
| | | Typ. (V) | I _F (mA) | Max. (μA) | V _R (V) | Peak λ _p (nm) | Half-wave Δλ (nm) | I _F (mA) | Min. (mcd) | Typ. (mcd) | I _F (mA) |
| SML-A10MT | Transparent Clear | 2.2 | 20 | 100 | 4 | 570 | 40 | 20 | 3.6 | 16 | 20 |

Directivity

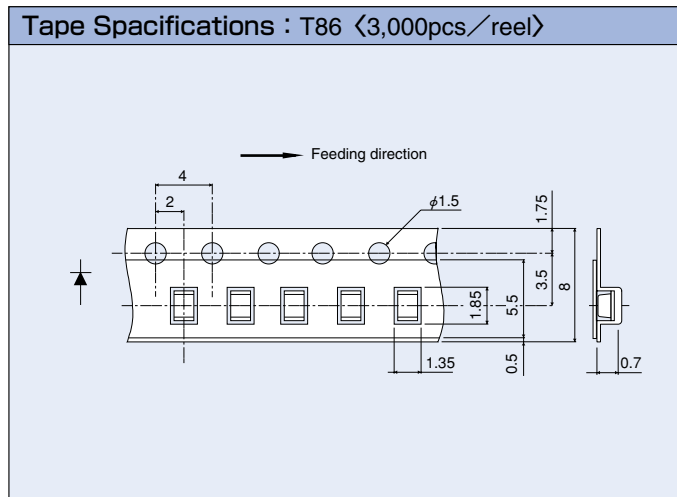


Recommended Pad Layout

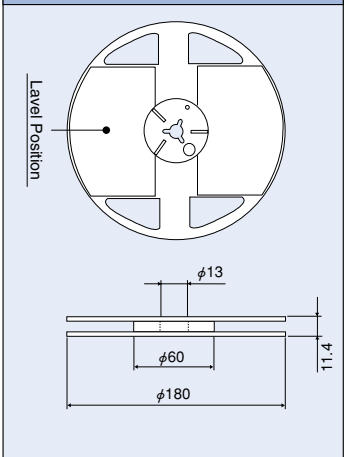


The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

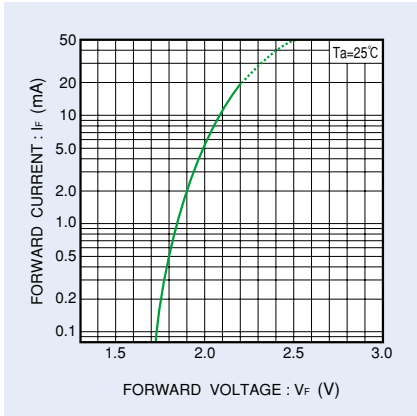


Reel Specifications



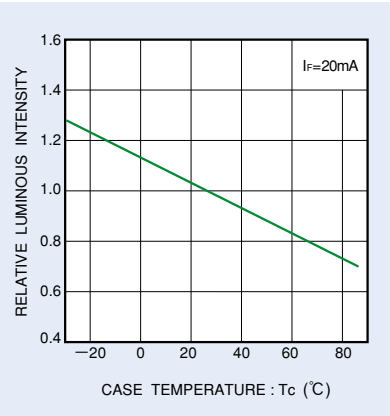
Electrical Characteristic Curves

Forward Current - Forward Voltage



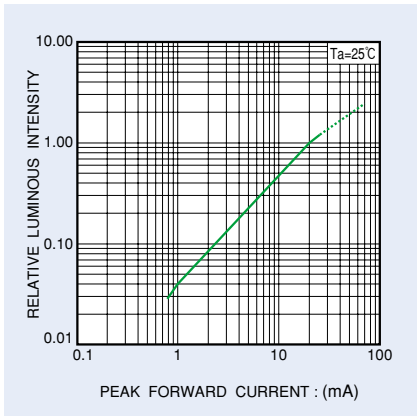
SML-A10MT

Relative Luminous Intensity - Case Temperature



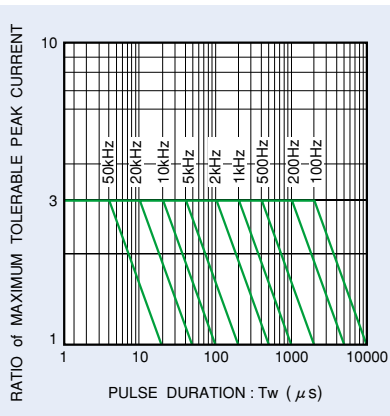
SML-A10MT

Relative Luminous Intensity - Forward Current



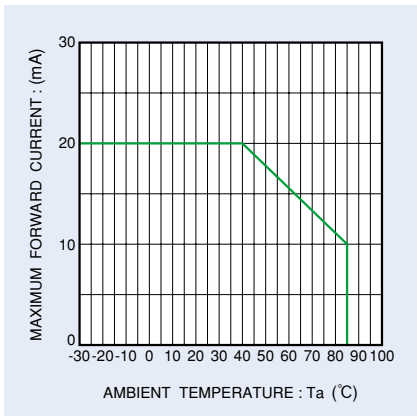
SML-A10MT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-A10MT

Derating



SML-A10MT

Notes

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