



**THE DATASHEET OF
SML-A10MTT86**



Side View type chip LED

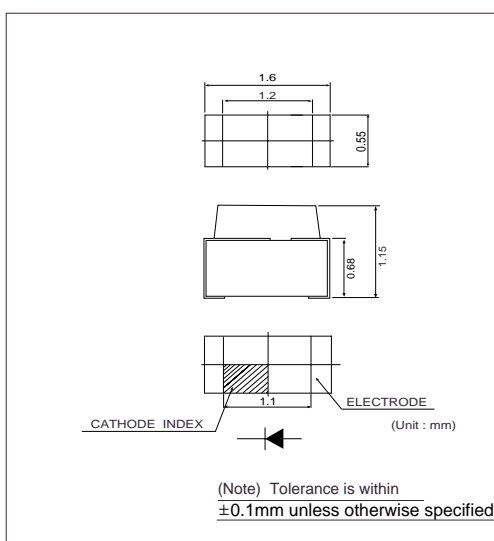
SML-A10 Series

The SML-A10 series are side view type chip LEDs.

●Features

- 1) Green colored light emission.
- 2) Small shaped (1.6×1.15×0.55mm).

●External dimensions (Units : mm)



●Selection guide

| | |
|-------------------|-----------|
| Emitting color | Green |
| Lens | |
| Transparent clear | SML-A10MT |

●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------|------------------|---------|------|
| Power dissipation | P _D | 55 | mW |
| Forward current | I _F | 20 | mA |
| Peak forward current | I _{FP} | 60 | mA* |
| Reverse voltage | V _R | 4 | V |
| Operating temperature | T _{opr} | -30~+85 | °C |
| Storage temperature | T _{stg} | -40~+85 | °C |

* Pulse width 1ms Duty 1 / 5

Light Emitting Diodes

●Electrical and optical characteristics (Ta=25°C)

| Parameter | | Color | Forward voltage | | | Reverse current | | | Luminous intensity | | | Peak wavelength | | Spectral line half width | |
|-----------|----|-------|--------------------|------|---------------------|---------------------|--------------------|----------------------|--------------------|---------------------|-------|---------------------|-------|--------------------------|--|
| | | | V _F (V) | | Cond. | I _R (mA) | Cond. | I _V (mcd) | | λ _P (nm) | Cond. | Δλ(nm) | Cond. | | |
| Type | | | Typ. | Max. | I _F (mA) | Max. | V _R (V) | Min. | Typ. | I _F (mA) | Typ. | I _F (mA) | Typ. | I _F (mA) | |
| SML-A10 | MT | Green | 2.2 | 2.8 | 20 | 100 | 4 | 3.6 | 10 | 20 | 570 | 20 | 40 | 20 | |

●Directional pattern

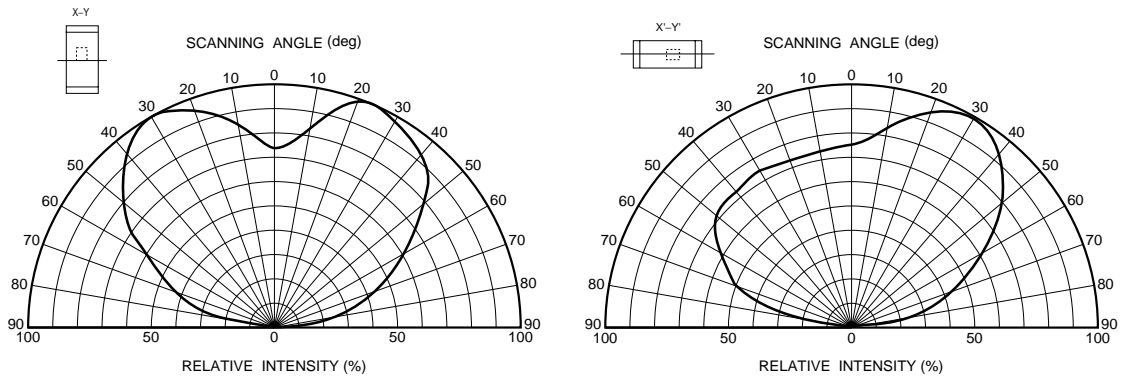


Fig.1 Directional pattern

●Electrical characteristic curves

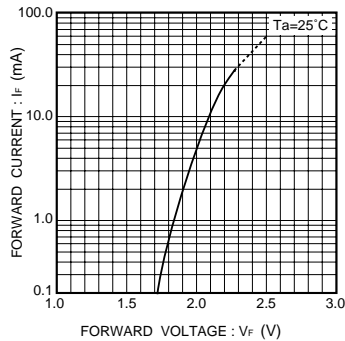


Fig.2 Forward current vs. forward voltage

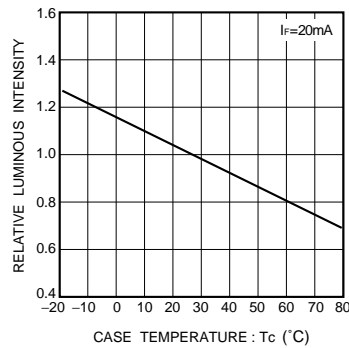


Fig.3 Relative luminous intensity vs. case temperature

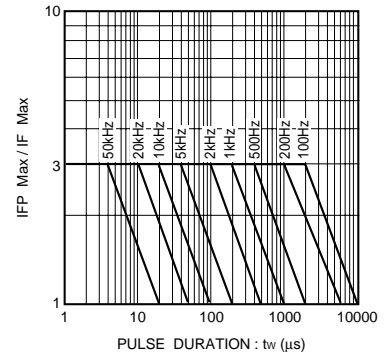


Fig.4 Ratio of maximum tolerable peak current vs. pulse duration

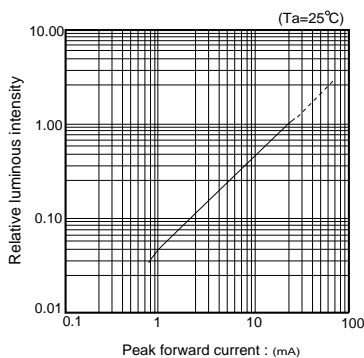


Fig.5 Relative luminous intensity vs. forward current

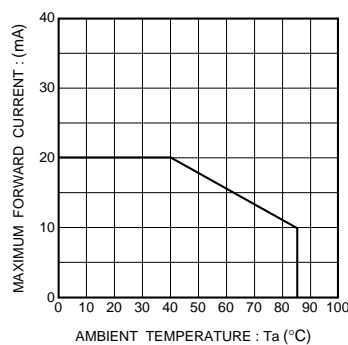




Fig.6 Maximum forward current vs. ambient temperature (Derating)

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