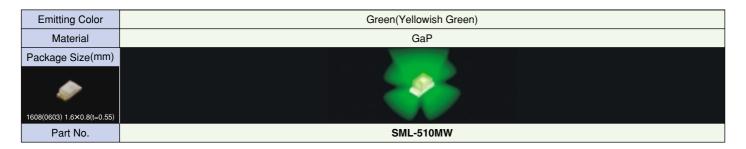
0603<1.6×0.8 t=0.55mm> Standard Type



SML-510 Series



■ Absolute Maximum Ratings (Ta=25°C)

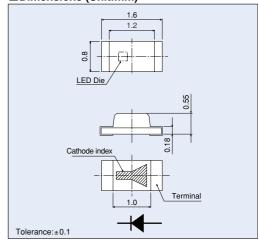
| | Part No. | Emitting color | Power dissipation P _D (mW) | Forward current IF (mA) | Peak forward current *IFP (mA) | Reverse voltage V _R (V) | | Storage temperature T _{stg} (°C) |
|---|-----------|----------------------------|---------------------------------------|----------------------------------|--------------------------------------------|---------------------------------------------|------------|----------------------------------------------------|
| ١ | SML-510MW | Green (Yellowish Green) | 55 | 20 | 60 | 4 | -30 to +85 | -40 to +85 |

^{*}:Duty $\leq 1/5$, pulse width ≤ 1 ms.

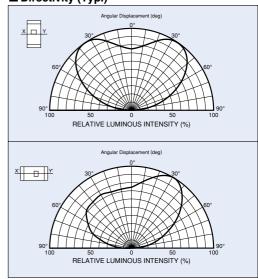
■ Electrical Optical Characteristics (Ta=25°C)

| | Part No. | Resin Color | Forward voltage V _F | | Reverse current In | | Light wavelength Peak Half-wave λρ Δλ | | | Brightness lv | | |
|---|-----------|-------------|--------------------------------------|------------|--------------------------|-----------|---------------------------------------|--------------|------------|------------------|---------------|------------|
| | | | Typ. | lF (mA) | Max. (μA) | Vr (V) | Typ. (nm) | Typ. (nm) | lF (mA) | Min. (mcd) | Typ. (mcd) | lF (mA) |
| ı | SML-510MW | Milky White | 2.2 | 20 | 100 | 4 | 570 | 40 | 20 | 3.6 | 16 | 20 |

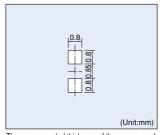
■Dimensions (Unit:mm)



■ Directivity (Typ.)

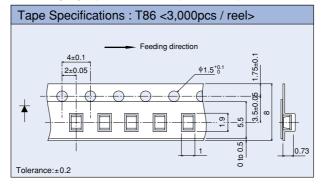


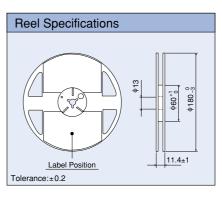
■Recommended Pad Layout



The recommended thickness of the screen mask for soldering is between 100 and $150\mu m$. The hole size of the screen mask should be same as the recommended land pattern or smaller.

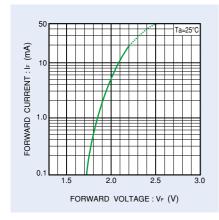
■ Packaging Specifications (Unit: mm)



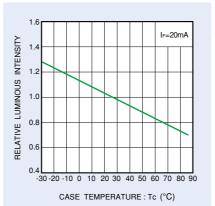


■Electrical Characteristic Curves

Forward Current - Forward Voltage



- SML-510MW 1.6

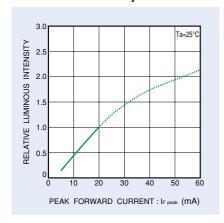


Relative Luminous Intensity - Case Temperature

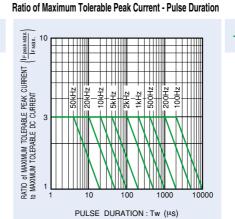
SML-510MW

SML-510MW

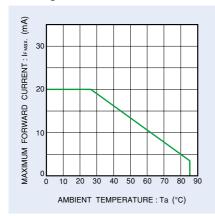
Relative Luminous Intensity - Forward Current



SML-510MW



Derating



SML-510MW

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