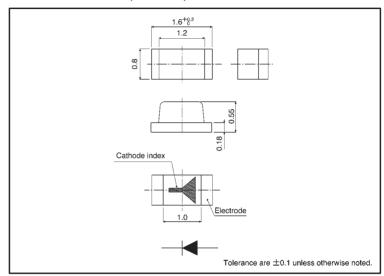
# Ultra-thin chip LEDs **SML-510MW**

The SML-510 is an ultra-thin chip LED. The compact and leadless design of these LEDs allows for high mounting density.

#### Features

- 1) Thin shaped and leadless  $(1.6 \times 0.8 \text{ mm}, 0.55 \text{ mm thick})$ .
- 2) Green colored light emission.
- 3) Can be mounted by automatic mounting.

#### External dimensions (Units: mm)



# Selection guide

Emitting color Lens	Green
Milky white	SML-510MW

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

Parameter	Symbol	Green	Unit	
	Symbol	SML-510MW		
Power dissipation	Po	55	mW	
Forward current	lF	20	mA	
Peak forward current	lfp	60	mA*	
Reverse voltage	VR	4	٧	
Operating temperature	Topr	<del>-30</del> ∼+85	င	
Storage temperature	Tstg	<b>−40~</b> +85	Ĉ	

<sup>\*</sup> Pulse width 1ms Duty 1/5



LED lamps SML-510MW

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

Par	ameter		Forward voltage		Reverse current		Luminous intensity		Peak wavelength		Spectral line half width			
<b>.</b>		Color	VF	V <sub>F</sub> (V) Cond.		IR( μ A)	Cond.	lv(mcd)		Cond.	λ ⊧(nm)	Cond.	Δλ(nm)	Cond.
Туре			Тур.	Max.	I <sub>F</sub> (mA)	Max.	V <sub>R</sub> (V)	Min.	Тур.	I <sub>F</sub> (mA)	Тур.	I <sub>F</sub> (mA)	Тур.	I <sub>F</sub> (mA)
SML-510	MW	Green	2.2	2.8	20	100	4	3.6	16.0	20	570	20	40	20

## Directional pattern

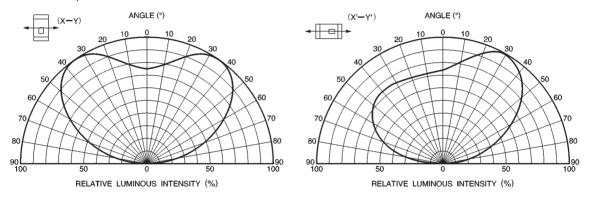


Fig.1 Directional pattern

## ●Electrical characteristic curves (SML-510MW) (green)

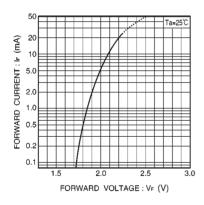


Fig.2 Forward current vs. forward voltage

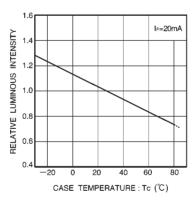


Fig.3 Luminous intensity vs. case temperature

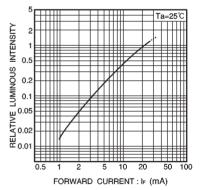


Fig.4 Luminous intensity vs. forward current

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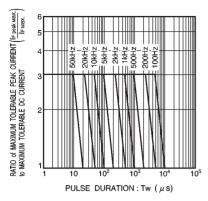


Fig. 5 Maximum tolerable peak current vs. pulse duration

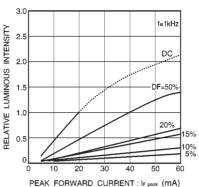


Fig.6 Luminous intensity vs. peak forward current

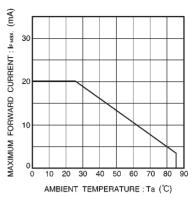


Fig. 7 Maximum forward current vs. ambient temperature