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SML-A10 Series

Light Emitting Diodes

# Side View type chip LED

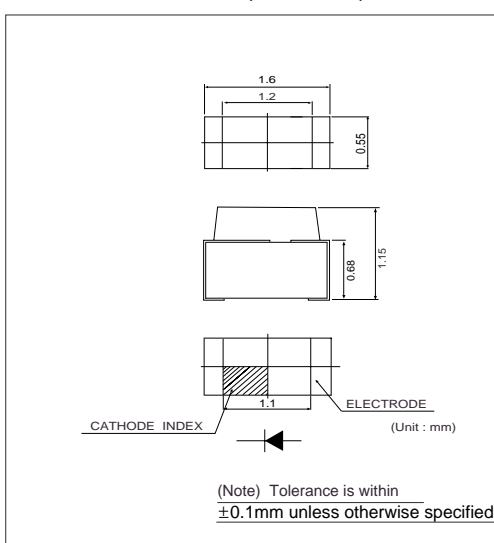
## SML- A10 Series

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 <sub>D</sub>	55	mW
Forward current	I <sub>F</sub>	20	mA
Peak forward current	I <sub>FP</sub>	60	mA*
Reverse voltage	V <sub>R</sub>	4	V
Operating temperature	T <sub>opr</sub>	-30~+85	°C
Storage temperature	T <sub>stg</sub>	-40~+85	°C

\* Pulse width 1ms Duty 1 / 5

**SML-A10 Series**

**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 <sub>F</sub> (V)		I <sub>R</sub> (mA)	Cond.	I <sub>v</sub> (mcd)	Cond.	λ <sub>P</sub> (nm)	Cond.	Δλ(nm)	Cond.				
		Typ.	Max.	Max.	V <sub>R</sub> (V)	Min.	Typ.	Typ.	I <sub>F</sub> (mA)	Typ.	I <sub>F</sub> (mA)				
Type															
SML-A10	MT	Green	2.2	2.8	20	100	4	3.6	10	20	570	20	40	20	

**●Directional pattern**

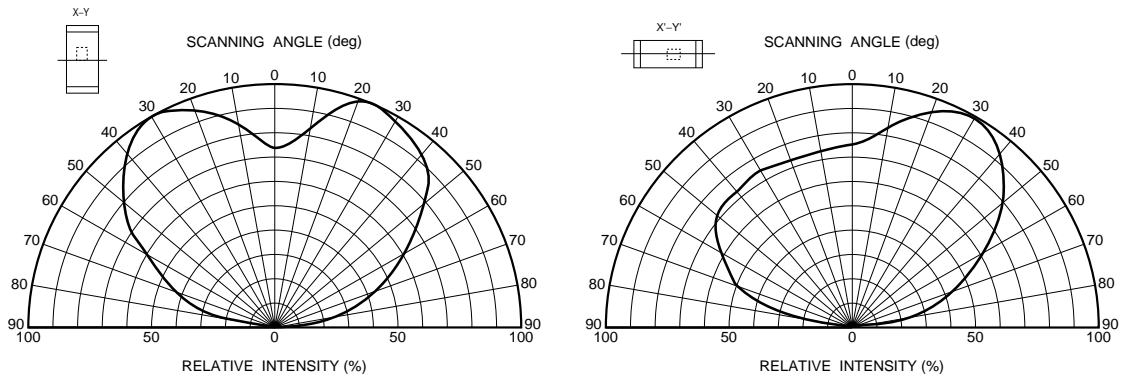


Fig.1 Directional pattern

**●Electrical characteristic curves**

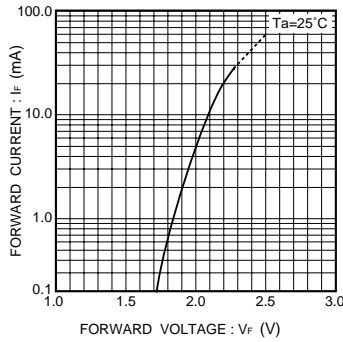


Fig.2 Forward current vs. forward voltage

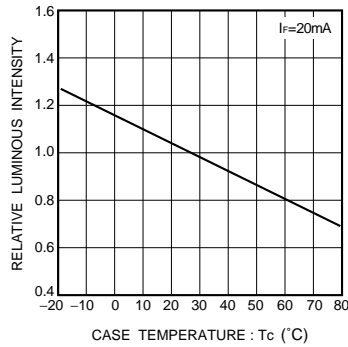


Fig.3 Relative luminous intensity vs. case temperature

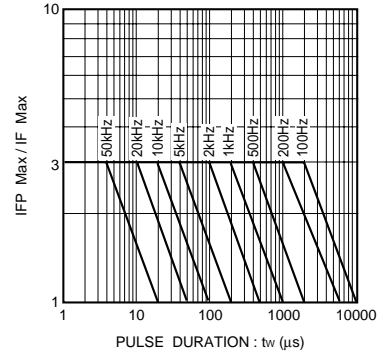


Fig.4 Ratio of maximum tolerable peak current vs. pulse duration

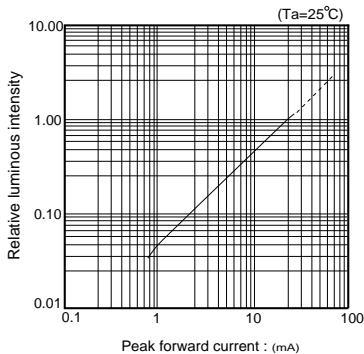


Fig.5 Relative luminous intensity vs. forward current

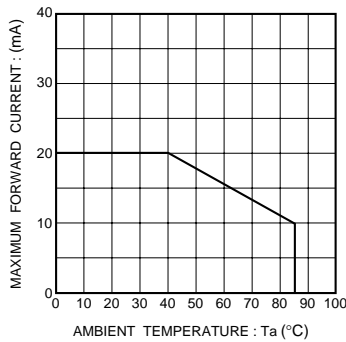


Fig.6 Maximum forward current vs. ambient temperature (Derating)