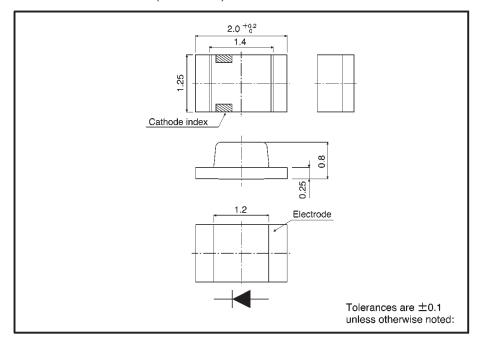
Chip LEDs with low power consumption SML-211 Series

The SML-211 series are low power consumption, chip LEDs equipped with an AlGalnP chip. These LEDs are compact and leadless to allow a higher mounting density, and low power consumption makes them an ideal light source for battery driven products.

Features

- Three colors : red, orange and yellow
- 2) Low power consumption chip LEDs equipped with an AlGalnP chip.
- 3) Six times the brightness of previous GaAsP chips at $I_F = 2$ mA.
- 4) Compact 2.0 mm \times 1.25 mm surface mount package.
- 5) Thin 0.8 mm package.
- 6) Ideal light source for battery driven products.

External dimensions (Units: mm)



Selection guide

Emitting color Lens	Emitting color Red		Yellow	Green	
Transparent clear	SML-211UT	SML-211DT	SML-211YT	_	

Absolute maximum ratings (Ta = 25°C)

Donomoton	C) mah al	Red	Orange	Yellow	I India		
Parameter	Symbol	SML-211UT	SML-211DT	SML-211YT	Unit		
Power dissipation	P□	22	22	22	mW		
Forward current	lF	10	10	10	mA		
Peak forward current	IFP	60	60	60	mA*		
Reverse voltage	VR	4	4	4	٧		
Operating temperature	Topr	−30~+85					
Storage temperature	Tstg	-40~ + 85					

^{*} Pulse width 1ms Duty 1/5

LED lamps SML-211 Series

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

Parameter		Color	Forward voltage		Reverse current		Luminous intensity			Peak wavelength		Spectral line half width		
			VF	(V)	Cond.	l _R (μ A)	Cond.	Iv (n	ncd)	Cond.	λ _P (nm)	Cond.	△ λ (nm)	Cond.
Туре			Тур.	Max.	I _F (mA)	Max.	$V_{R}(V)$	Min.	Тур	I _F (mA)	Тур.	I _F (mA)	Тур.	I _F (mA)
SML-211	UT	Red	1.8	2.2	2	100	4	0.9	2.5	2	630	2	18	2
	DT	Orange	1.8	2.2	2	100	4	0.9	2.5	2	611	2	16	2
	YT	Yellow	1.8	2.2	2	100	4	0.56	1.6	2	590	2	15	2

Directional pattern

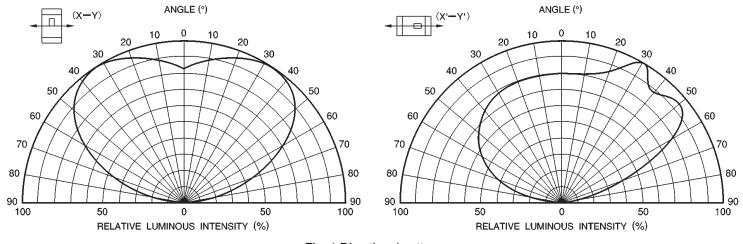


Fig. 1 Directional pattern

LED lamps SML-211 Series

Electrical characteristic curves (SML-211UT, DT, YT)

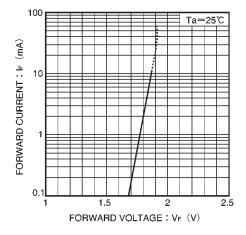


Fig. 2 Forward current vs. forward voltage

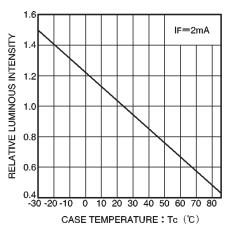


Fig. 3 Luminous intensity vs. case temperature

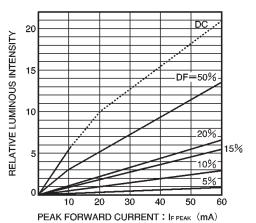


Fig. 4 Luminous intensity vs. peak forward current

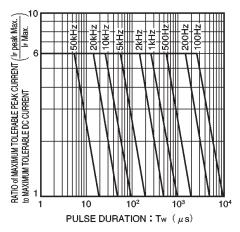


Fig. 5 Maximum tolerable peak current vs. pulse duration

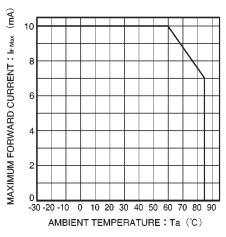


Fig. 6 Maximum forward current vs. ambient temperature