

Super small side view LED

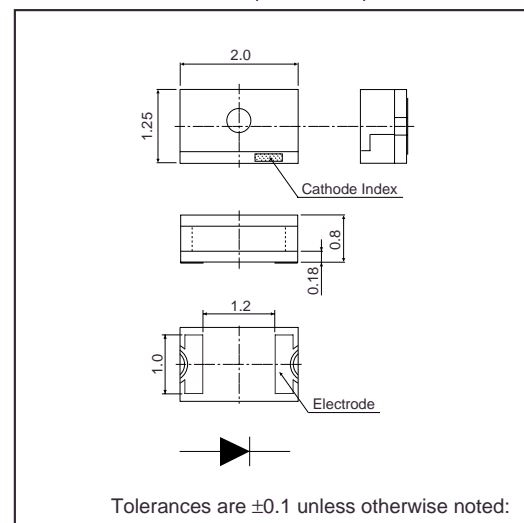
SML-710MW

SML-710 is small side view LEDs. Due to its reflector constructed inside, it will make higher brightness and suitable for LCD backlights.

●Features

- 1) Because of its structure inside, better reflection will be made for high brightness.
- 2) Better self alignment due to its construction of electrode on the bottom.
- 3) 2×1.25, t=0.8mm Super small type

●External dimensions (Units : mm)



●Selection guide

Emitting color	Green
Lens	
Milky white	SML-710MW

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Green	Unit
		SML-710MW	
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 (μA)	Cond.	I _v (mcd)		λ _P (nm)	Cond.	Δλ (nm)	Cond.	
			Typ.	Max.	I _F (mA)	Max.	V _R (V)	Min.	Typ.	I _F (mA)	Typ.	I _F (mA)	Typ.	I _F (mA)
SML-710	MW	Green	2.2	2.8	20	100	4	3.6	14	20	570	20	40	20

●Directional pattern

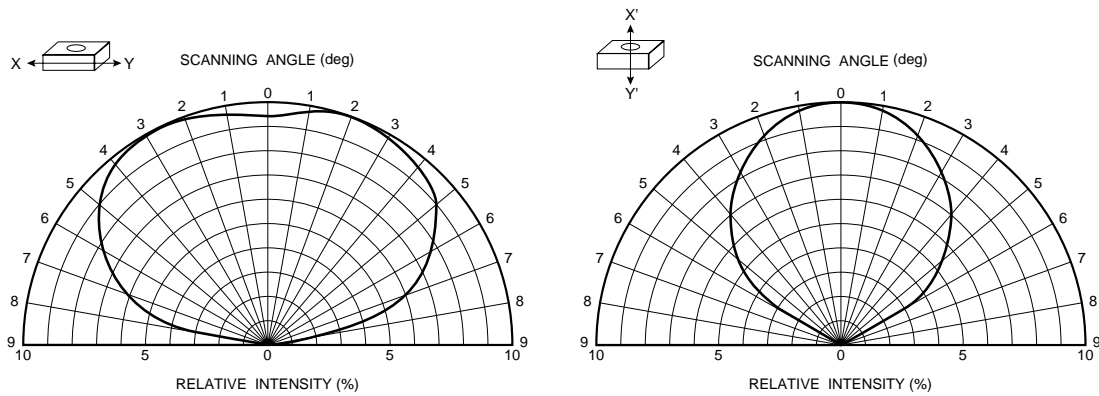


Fig.1 Directional pattern

●Electrical characteristic curves

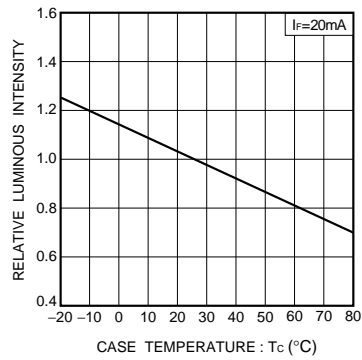


Fig.2 Relative luminous intensity vs. case temperature

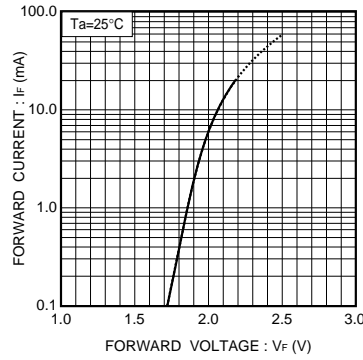


Fig.3 Forward current vs. forward voltage

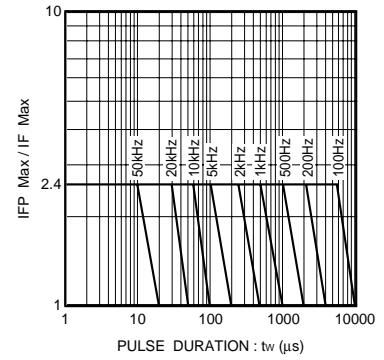


Fig.4 Ratio of maximum tolerable peak current vs. pulse duration

Light Emitting Diodes

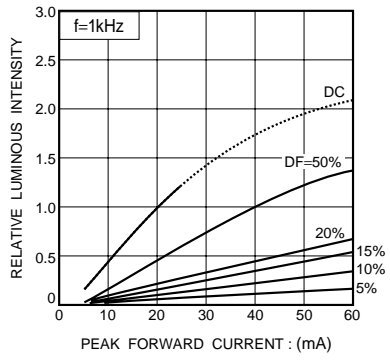


Fig.5 Relative luminous intensity vs. forward current

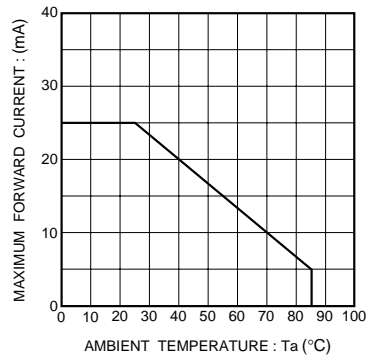


Fig.6 Derating