Super small side view LED

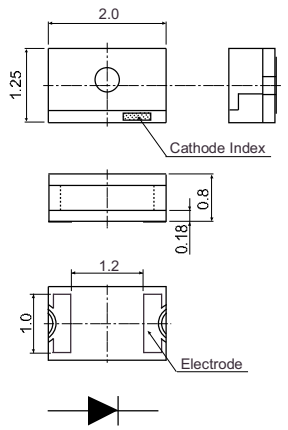
SML-710MW

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)



Tolerances are ±0.1 unless otherwise noted:

●Selection guide

Emitting color / Lens	Green
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	Topr	–30~+85	°C
Storage temperature	Tstg	–40~+85	°C

*Pulse width 1ms Duty 1/5

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

Parameter / Type		Color	Forward voltage			Reverse current		Luminous intensity			Peak wavelength		Spectral line half width	
			V_F (V)		Cond.	I_R (μA)	Cond.	I_V (mcd)		Cond.	λ_P (nm)	Cond.	$\Delta\lambda$ (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

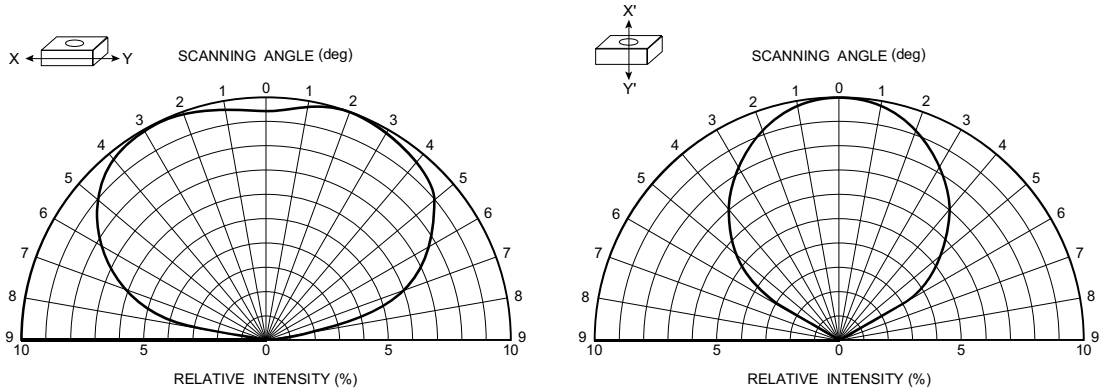


Fig.1 Directional pattern

●Electrical characteristic curves

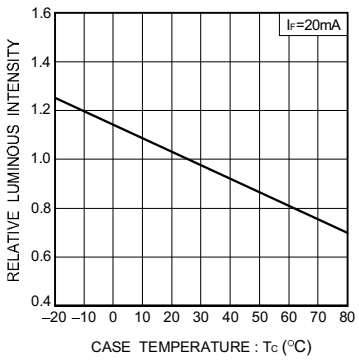


Fig.2 Relative luminous intensity vs. case temperature

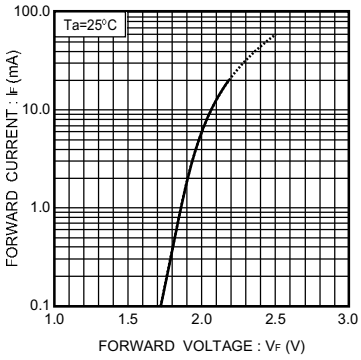


Fig.3 Forward current vs. forward voltage

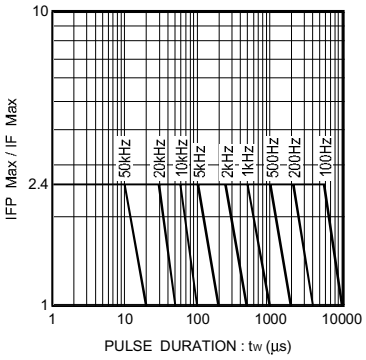


Fig.4 Patio of maximum tolerable peak current vs. pulse duration

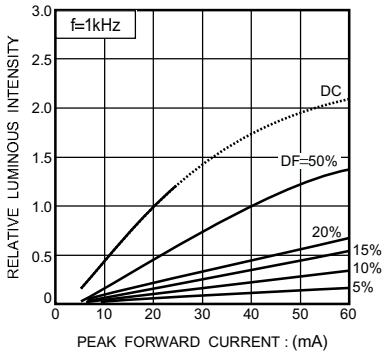


Fig.5 Relative luminous intensity vs. forward current

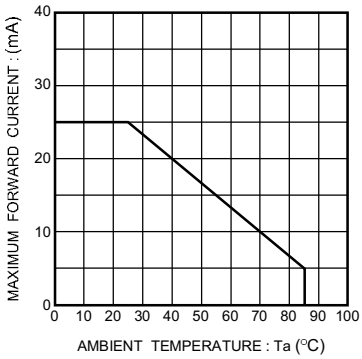


Fig.6 Dirating