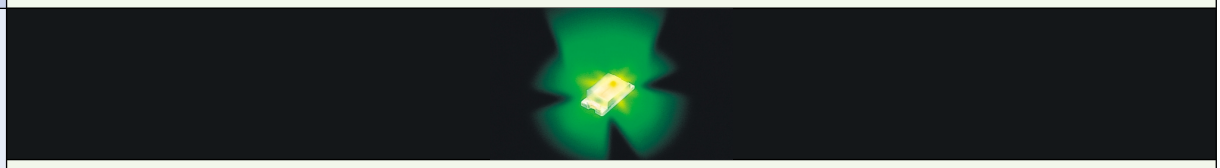
High Brightness Type　Mini-molded chip LEDs

SML-412 Series

Package Size (mm)	Green
	AlGaInP on GaAs
	570nm
1608 (0603) 1.6×0.8 t=0.4	
	SML-412MW

■ Absolute Maximum Ratings (Ta=25℃)

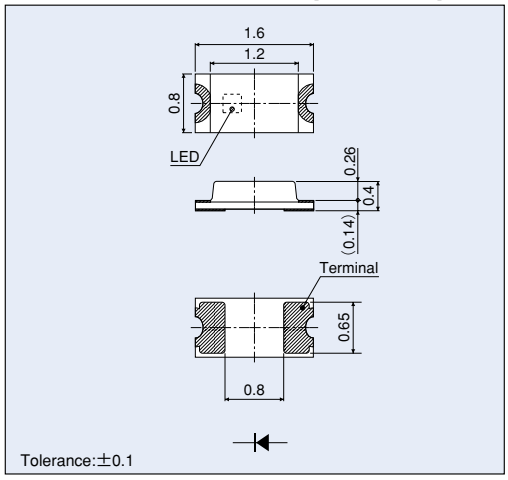
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current ＊I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Stotage temperature T_{stg} (°C)
SML-412MW	Green	65	25	60	4	-30 to +85	-40 to +85

＊I_{FP} measured under duty ≦1/ 5,pulse width ≦1ms.

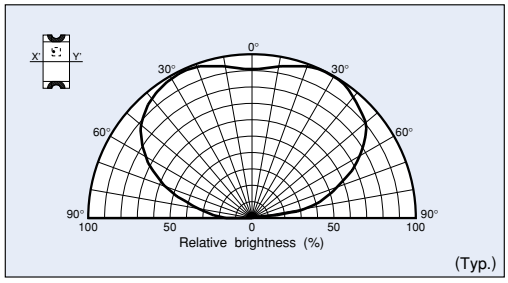
■ Electrical Optical Characteristics (Ta=25℃)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Peak λp	Light wavelength Half-wave $\Delta\lambda$		Brightness Iv		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Typ. (nm)	Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML-412MW	Milky White	2.1	20	100	4	570	18	20	14	40	20

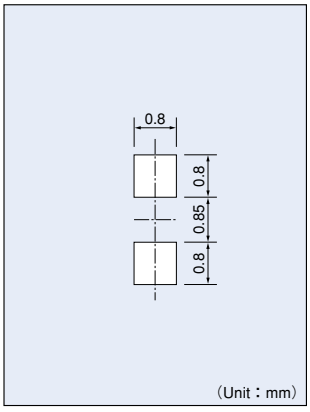
■ External Dimensions (Unit : mm)



■ Directivity



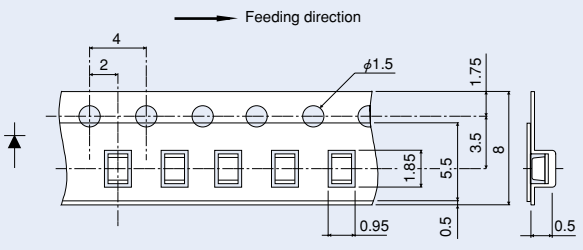
■ Recommemded Pad Layout



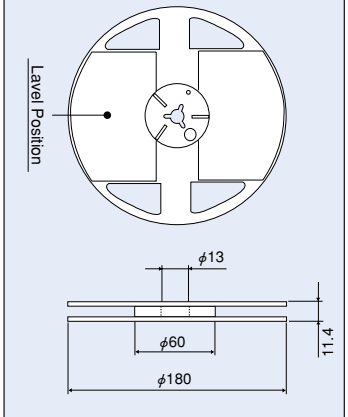
The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Spacifications (Unit : mm)

Tape Spacifications : T86 〈5,000pcs／reel〉

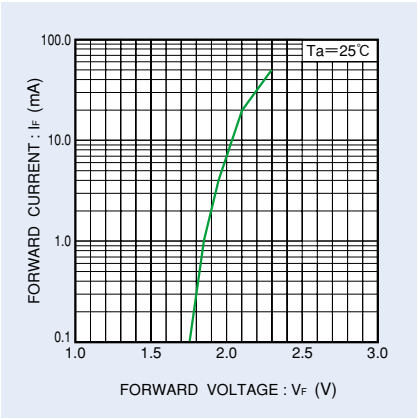


Reel Spacifications



Electrical Characteristic Curves

Forward Current - Forward Voltage



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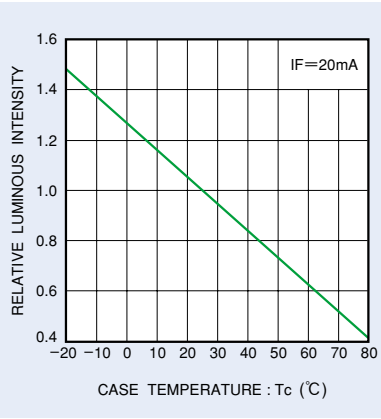
Relative Luminous Intensity - Case Temperature



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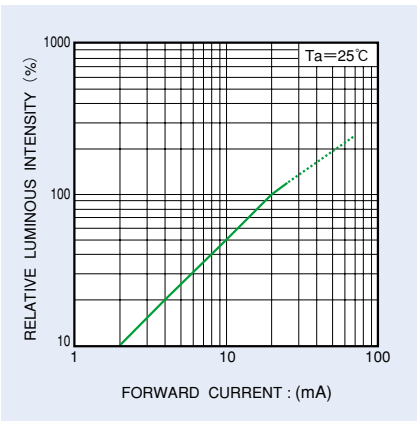
Relative Luminous Intensity - Forward Current



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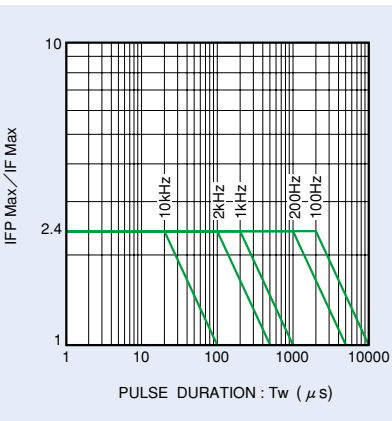
Ratio of Maximum Tolerable Peak Current - Pulse Duration



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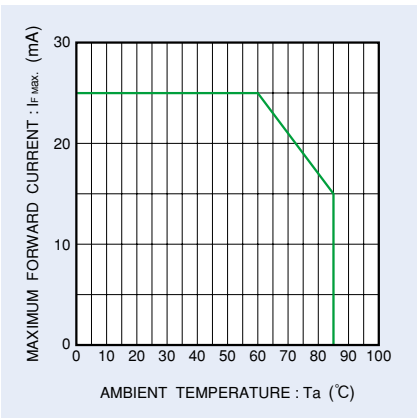
Derating



SML-412MW

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