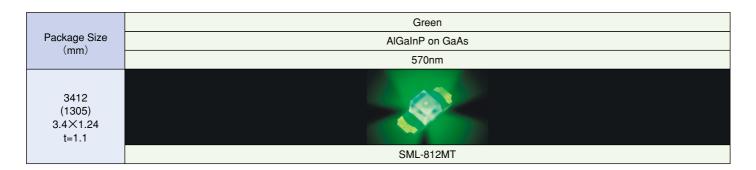
High Brightness Type Back-fire chip LEDs(Reverse package)

SML-812 Series



■ Absolute Maximum Ratings (Ta=25°C)

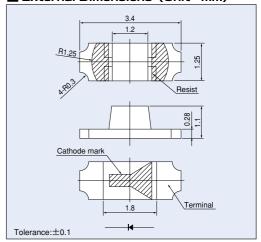
Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr (°C)	Stotage temperature T _{stg} (°C)
SML-812MT	Green	65	25	60	4	-30 to +85	-40 to +85

^{*} IFP measured under duty \leq 1/5, pulse width \leq 1 ms.

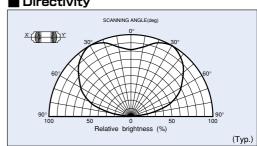
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (μ A)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
SML-812MT	Transparent Clear	2.1	20	100	4	570	18	20	14	40	20

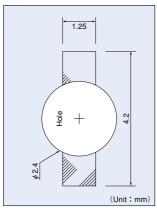
■ External Dimensions (Unit: mm)



Directivity

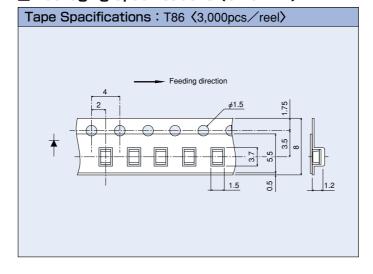


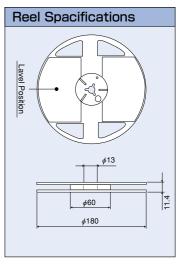
■ Recommemded Pad Layout



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

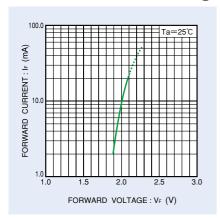
■ Packaging Spacifications (Unit: mm)



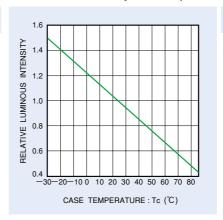


■ Electrical Characteristic Curves

Forward Current - Forward Voltage



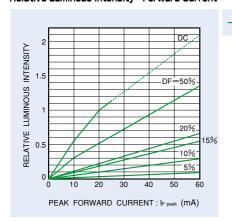
Relative Luminous Intensity - Case Temperature



SML-812MT

SML-812MT

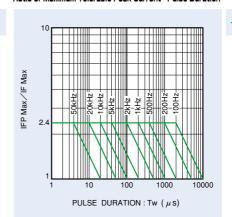
Relative Luminous Intensity - Forward Current



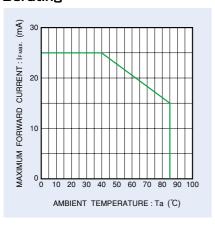
- SML-812MT

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Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



— SML-812MT

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