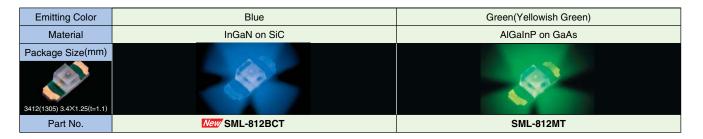
Reverse Mount Chip LEDs 1305 <3.4×1.25 t=1.1mm> High Brightness Type



SML-812 Series





■ Absolute Maximum Ratings (Ta=25°C)

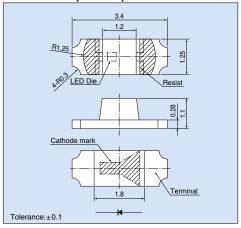
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current IF (mA)	Peak forward current IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr (°C)	Storage temperature T _{stg} (°C)	
SML-812BCT	Blue	80	20	100* ¹	5	-30 to +85	-40 to +85	
SML-812MT	Green (Yellowish Green)	65	25	60*2	4	-30 10 +65		

*1:Duty ≦ 1/10, 1kHz. *2:Duty ≦ 1/5, pulse width ≦ 1ms.

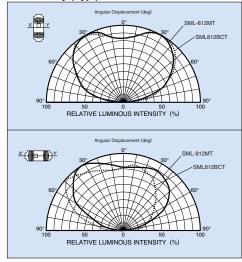
■ Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current IR		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lF (mA)	Max. (µA)	VR (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
SML-812BCT	Transparent	3.3	20	100	5	468	26	20	22	56	20
SML-812MT	Colorless	2.1			4	570	18		14	40	

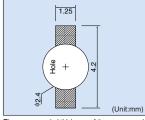
■Dimensions (Unit:mm)



■Directivity (Typ.)

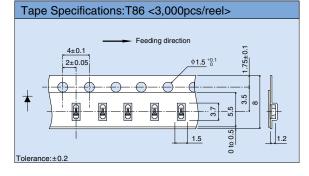


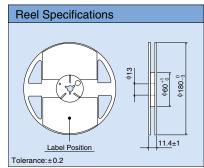
■Recommended Pad Layout



The recommended thickness of the screen mask for soldering is between 100 and 150µm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

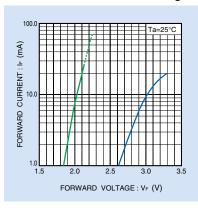
■Packaging Specifications (Unit:mm)



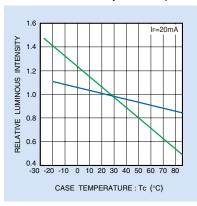


■Electrical Characteristic Curves

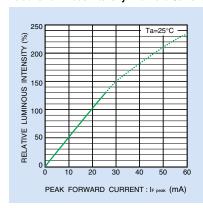
Forward Current - Forward Voltage



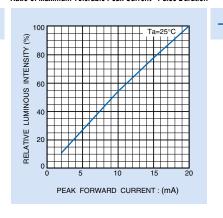
Relative Luminous Intensity - Case Temperature



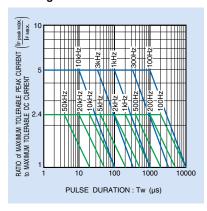
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating

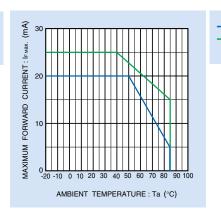




SML812BCT

SML-812MT

SML-812MT



- SML-812MT

SML812BCT

SML812BCT

SML-812MT

SML812BCT

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Appendix1-Rev2.0