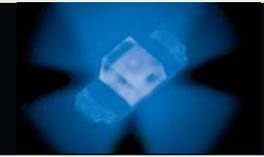


Reverse Mount Chip LEDs 1305 <3.4×1.25 t=1.1mm> High Brightness Type

SML-812 Series



Emitting Color	Blue	Green(Yellowish Green)
Material	InGaN on SiC	AlGaInP on GaAs
Package Size(mm)		
Part No.	New SML-812BCT	SML-812MT

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current I _{FP} (mA)	Reverse voltage VR (V)	Operating temperature T _{opr} (°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 to +85	-40 to +85

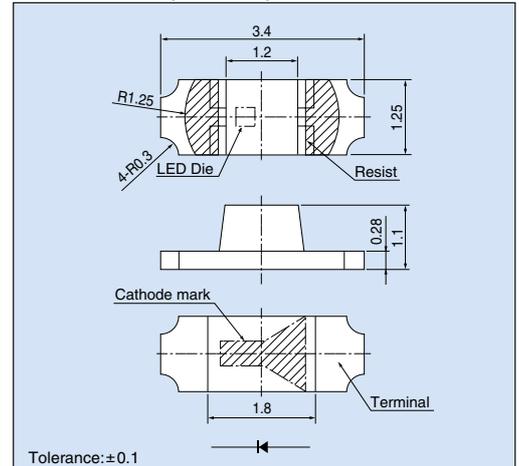
*1:Duty ≤ 1/10, 1kHz.

*2:Duty ≤ 1/5, pulse width ≤ 1ms.

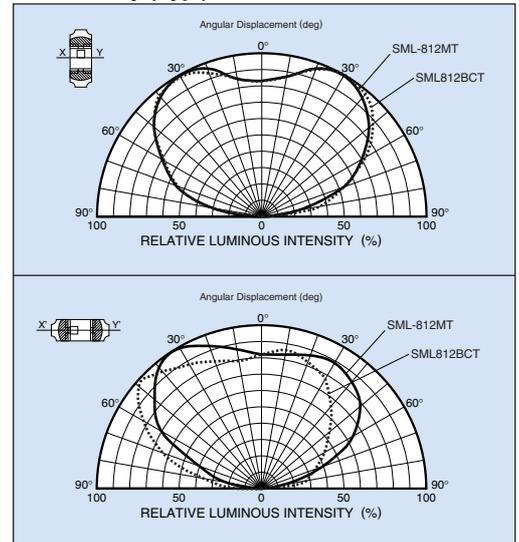
Electrical Optical Characteristics (Ta=25°C)

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

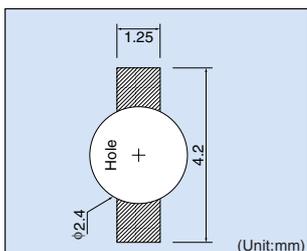
Dimensions (Unit:mm)



Directivity (Typ.)

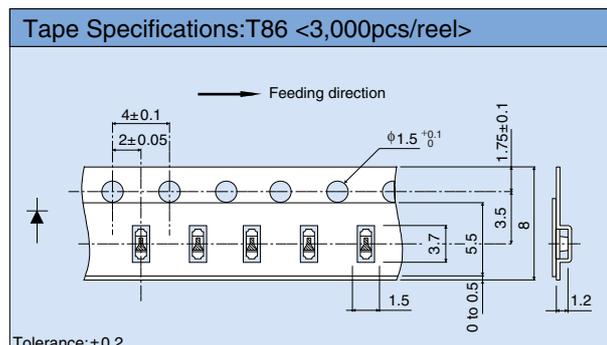


Recommended Pad Layout

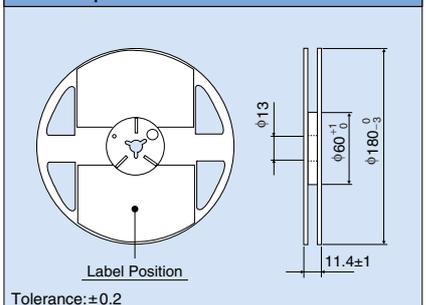


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)

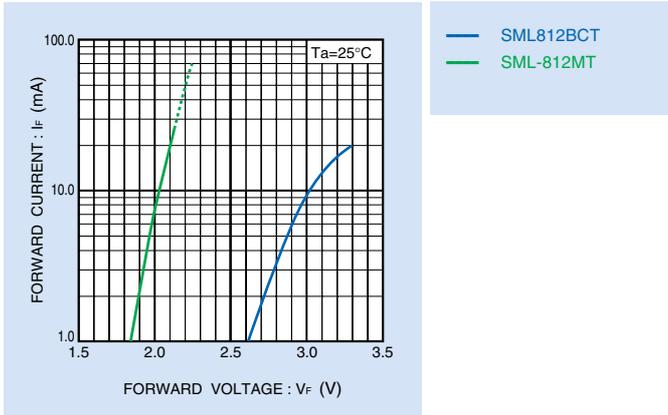


Reel Specifications

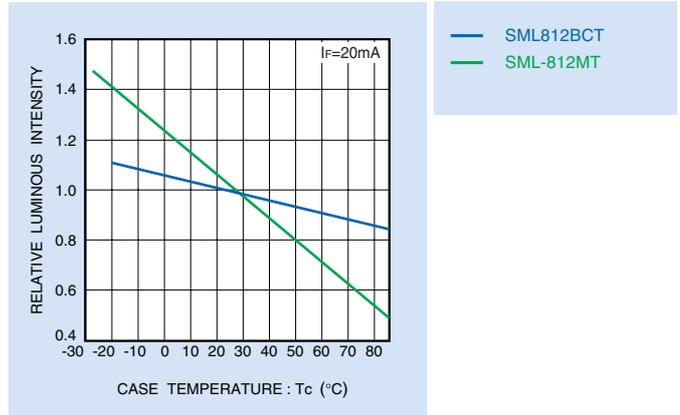


Electrical Characteristic Curves

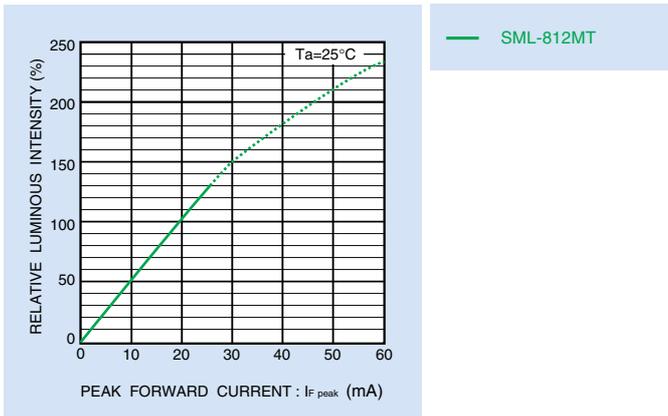
Forward Current - Forward Voltage



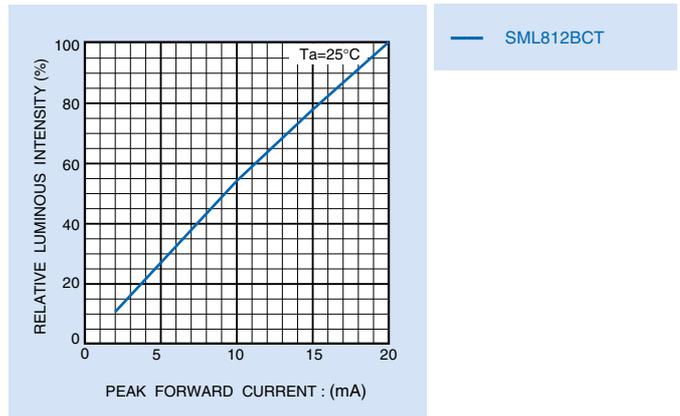
Relative Luminous Intensity - Case Temperature



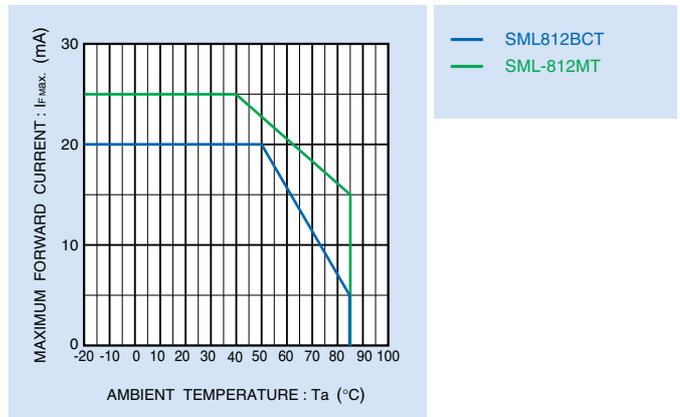
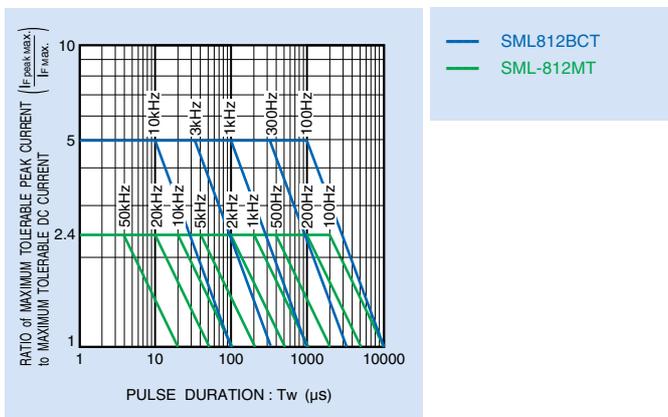
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Notes

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