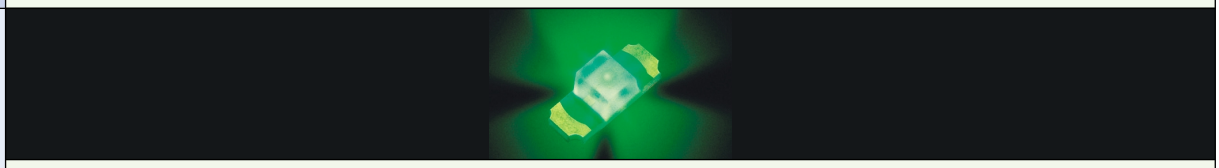
High Brightness Type　Back-fire chip LEDs(Reverse package)

SML-812 Series

Package Size (mm)	Green
	AlGaInP on GaAs
	570nm
3412 (1305) 3.4×1.24 t=1.1	
	SML-812MT

■ Absolute Maximum Ratings (Ta=25℃)

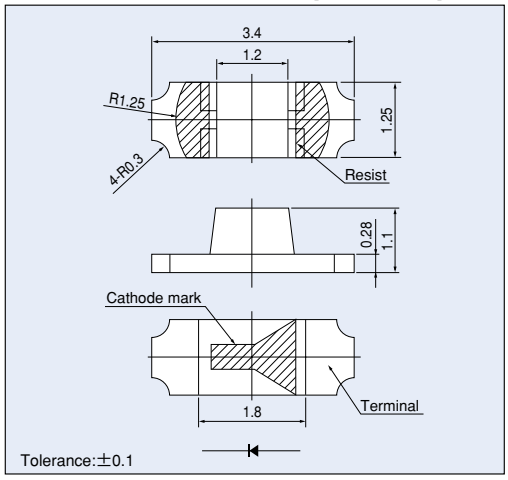
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current ＊I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Stotage temperature T_{stg} (°C)
SML-812MT	Green	65	25	60	4	-30 to +85	-40 to +85

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

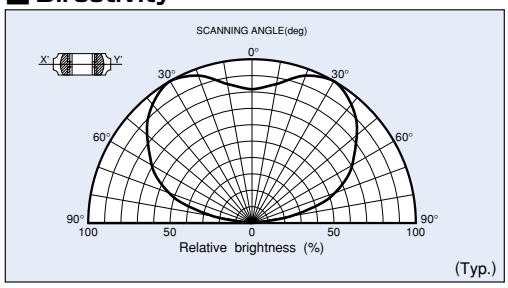
■ Electrical Optical Characteristics (Ta=25℃)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Peak λp	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-812MT	Transparent Clear	2.1	20	100	4	570	18	20	14	40	20

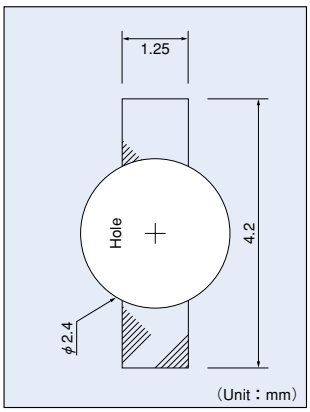
■ External Dimensions (Unit : mm)



■ Directivity



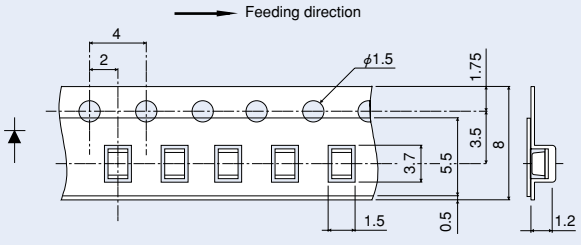
■ Recommemded Pad Layout



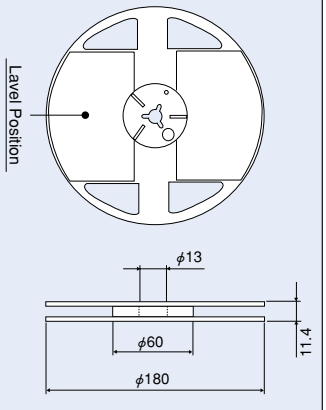
The recommended thickness of the screen mask for soldering is between 100 and 200μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Spacifications (Unit : mm)

Tape Spacifications : T86 〈3,000pcs／reel〉

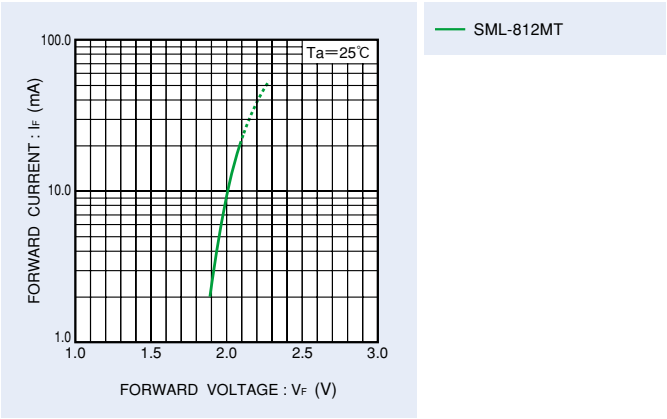


Reel Spacifications

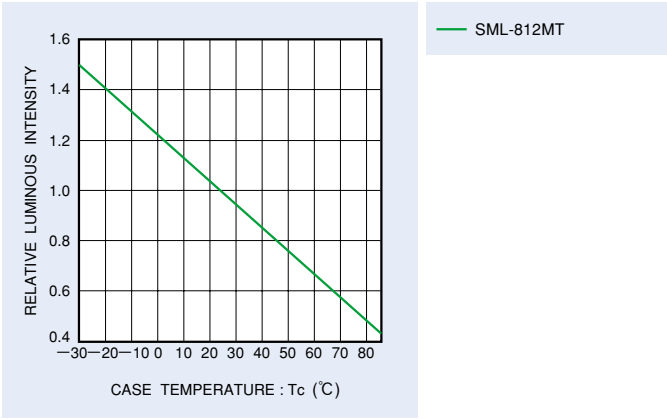


Electrical Characteristic Curves

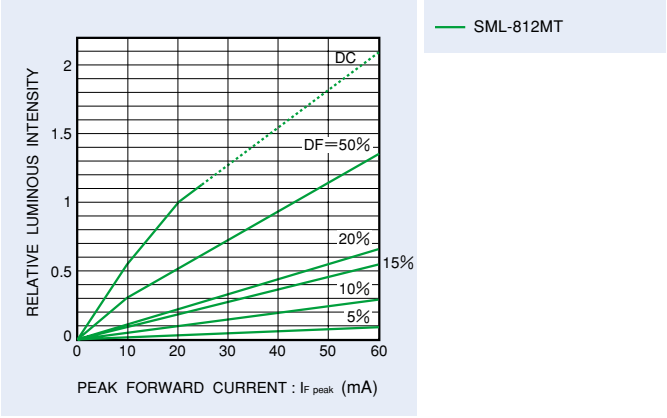
Forward Current - Forward Voltage



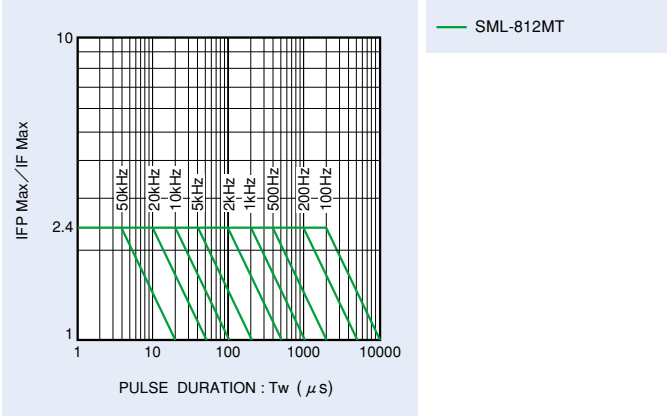
Relative Luminous Intensity - Case Temperature



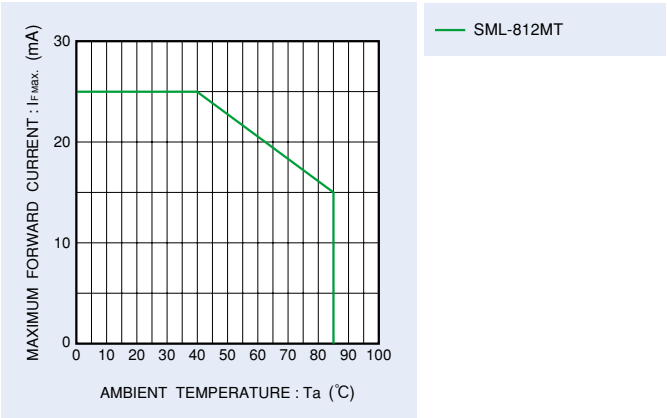
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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