

0805<2.0×1.25 t=0.8mm> Standard Type

SML-210 Series

Emitting Color	Pure Green	Green(Yellowish Green)	Yellow	Orange	Red	
Material	GaP			GaAsP on GaP	GaAlAs on GaAs	
Package Size(mm)						
Part No.	SML-210PT	SML-210MT	SML-210YT	SML-210DT	SML-210VT	SML-210LT

Absolute Maximum Ratings (Ta=25°C)

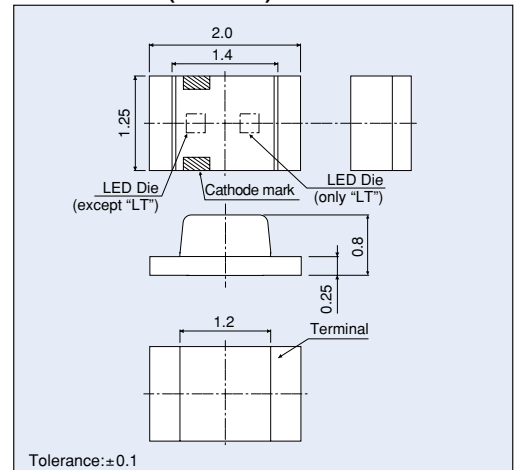
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current *I _{FP} (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SML-210PT	Pure Green	70	25	60	4	-30 to +85	-40 to +85
SML-210MT	Green (Yellowish Green)						
SML-210YT	Yellow						
SML-210DT	Orange						
SML-210VT	Red						
SML-210LT	Red	75	30	75			

*:Duty ≤ 1/5, pulse width ≤ 1ms.

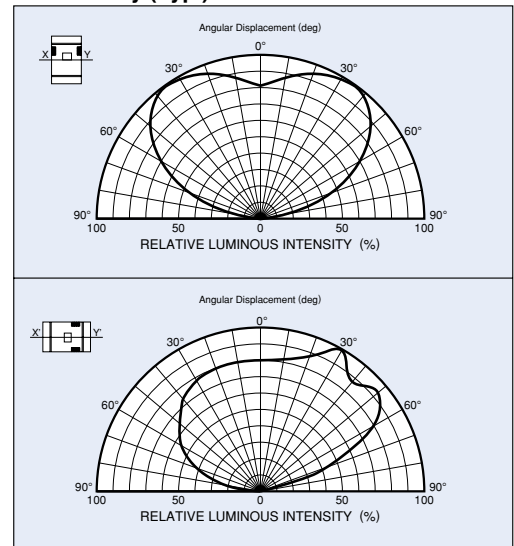
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength			Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Peak λ _p Typ. (nm)	Half-wave Δλ Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-210PT	Transparent Colorless	2.2	20	100	4	555		20	1.4	4	20
SML-210MT						570			3.6	16	
SML-210YT		2.1				585	40	2.2	6.3		
SML-210DT						610			1.4	4	
SML-210VT		2.0				650		3.6	10		
SML-210LT						1.75	660		25		

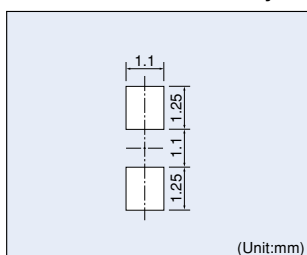
Dimensions (Unit:mm)



Directivity (Typ.)

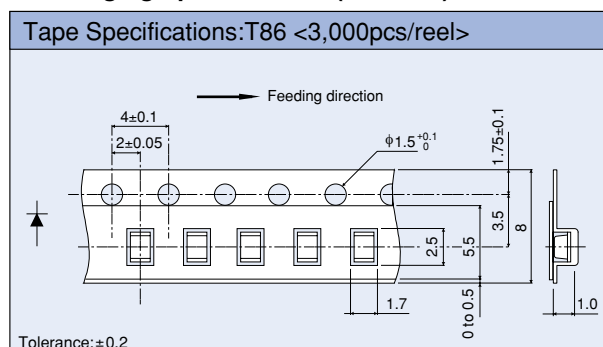


Recommended Pad Layout

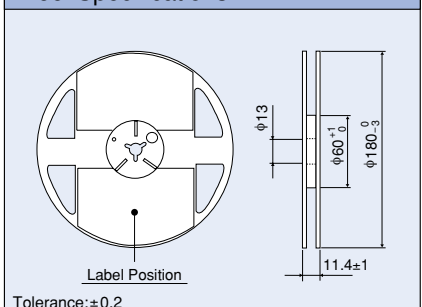


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)

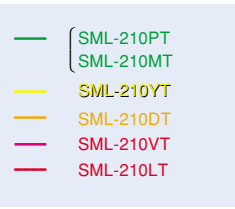
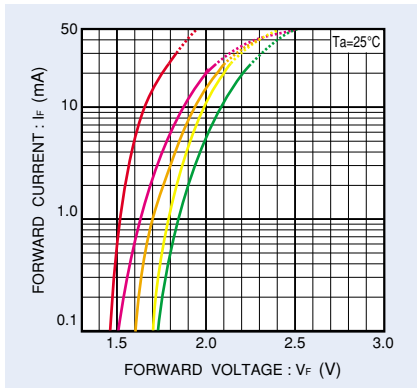


Reel Specifications

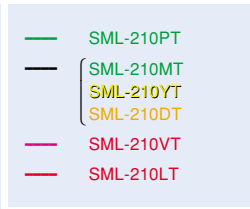
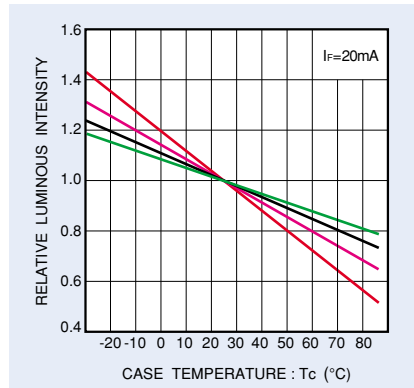


Electrical Characteristic Curves

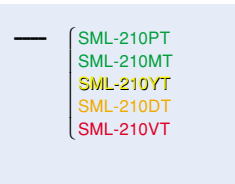
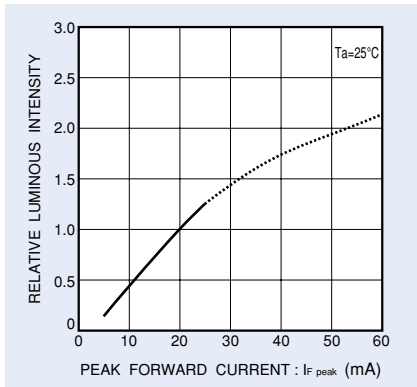
Forward Current - Forward Voltage



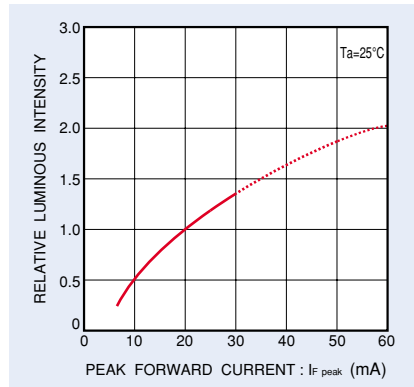
Relative Luminous Intensity - Case Temperature



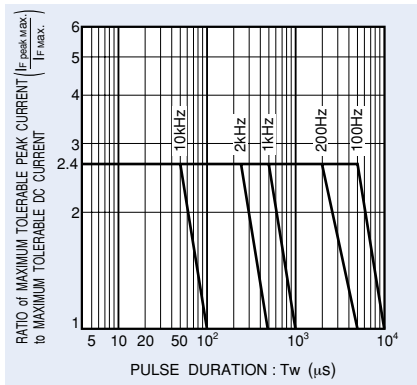
Relative Luminous Intensity - Forward Current



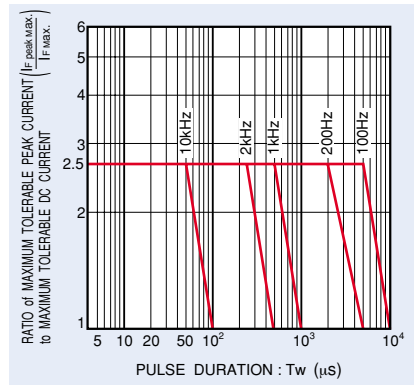
Relative Luminous Intensity - Forward Current



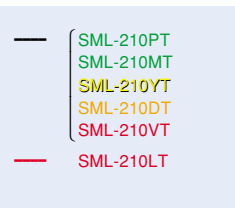
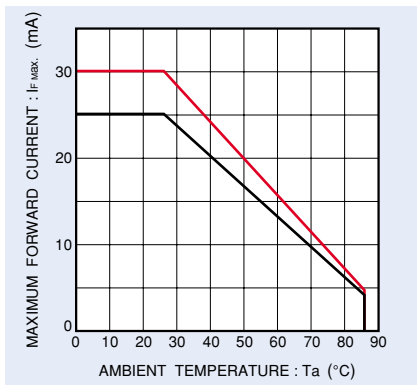
Ratio of Maximum Tolerable Peak Current - Pulse Duration



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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