

# 0805<2.0×1.25 t=0.8mm> Standard Type

## SML-210 Series

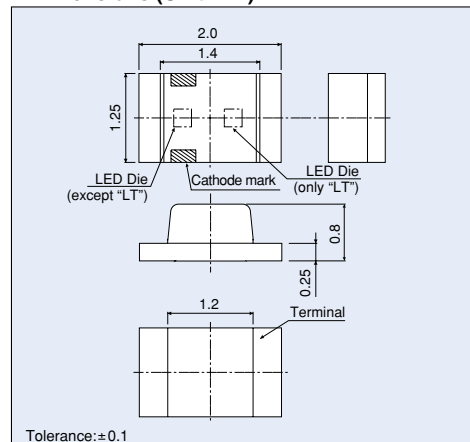
Emitting Color	Pure Green	Green(Yellowish Green)	Yellow	Orange	Red	
Material	GaP			GaAsP on GaP	GaAlAs on GaAs	
Package Size(mm)						
2012(0805) 2.0×1.25(t=0.8)						
Part No.	SML-210PT	SML-210MT	SML-210YT	SML-210DT	SML-210VT	SML-210LT

### Absolute Maximum Ratings (Ta=25°C)

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

\*:Duty ≤ 1/5, pulse width ≤ 1ms.

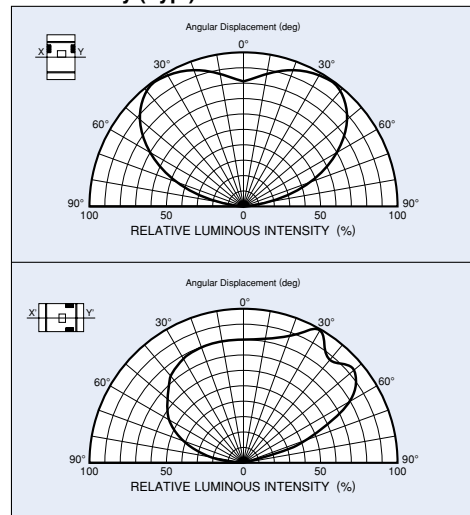
### Dimensions (Unit:mm)



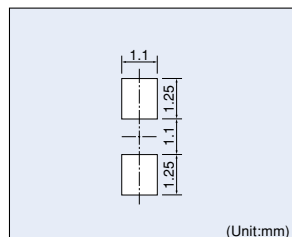
### Electrical Optical Characteristics (Ta=25°C)

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

### Directivity (Typ.)

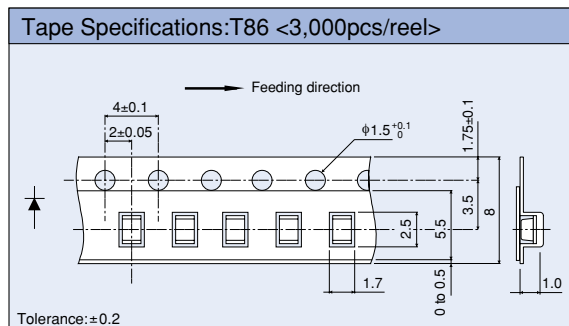


### Recommended Pad Layout

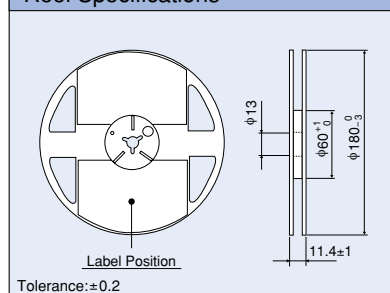


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

### Packaging Specifications (Unit:mm)

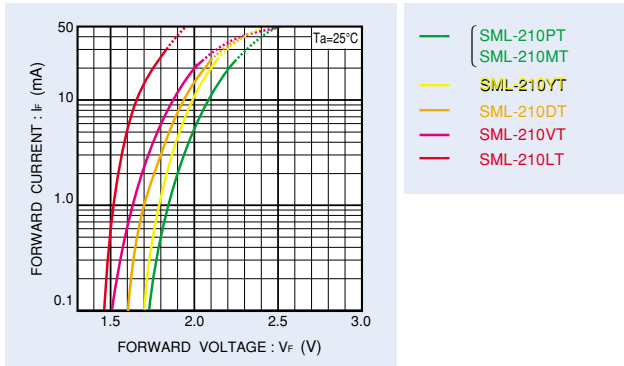


### Reel Specifications

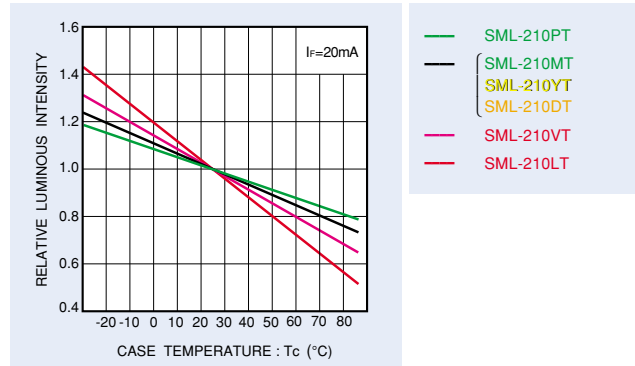


## Electrical Characteristic Curves

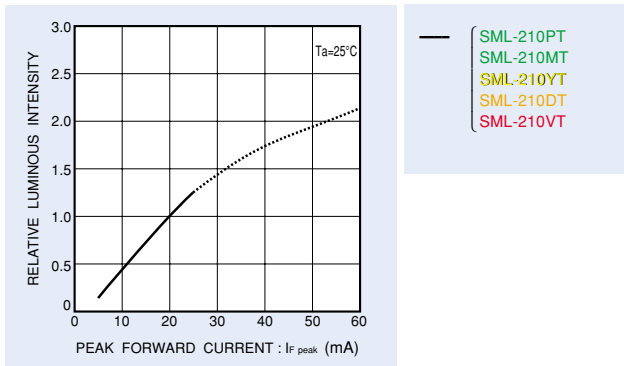
### Forward Current - Forward Voltage



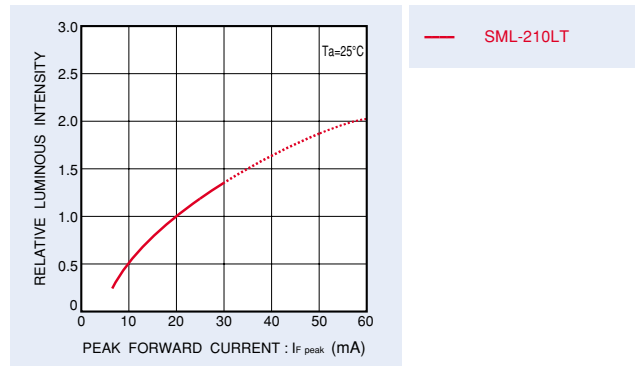
### Relative Luminous Intensity - Case Temperature



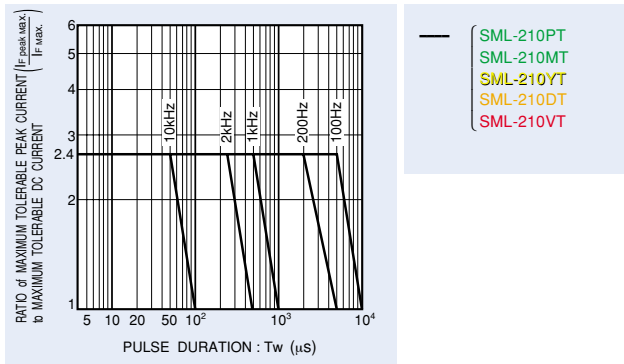
### Relative Luminous Intensity - Forward Current



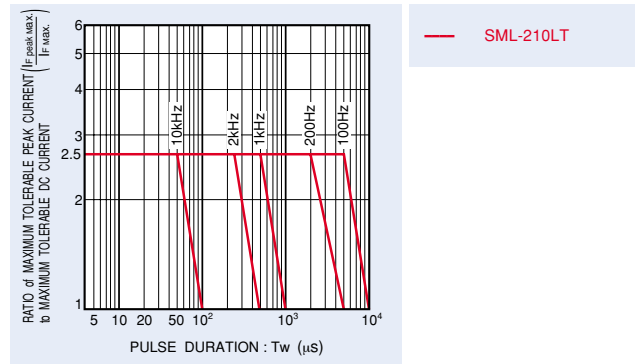
### Relative Luminous Intensity - Forward Current



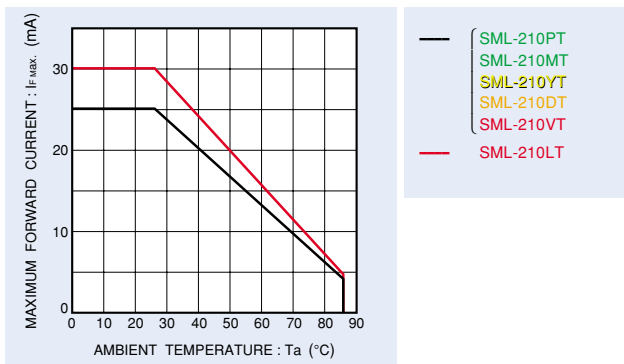
### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Ratio of Maximum Tolerable Peak Current - Pulse Duration



### Derating



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