








Standard Type



SML-P12 Series

Emitting Color	Pure Green	Green(Yellowish Green)	Yellow	Orange	Red	
Material	AlGaInP on GaAs					
Package Size(mm)						
1006(0402) 1.0X0.6(t=0.2)						
Part No.	SML-P12PT	SML-P12MT	SML-P12YT	SML-P12DT	SML-P12UT	SML-P12VT

■ Absolute Maximum Ratings (Ta=25°C)

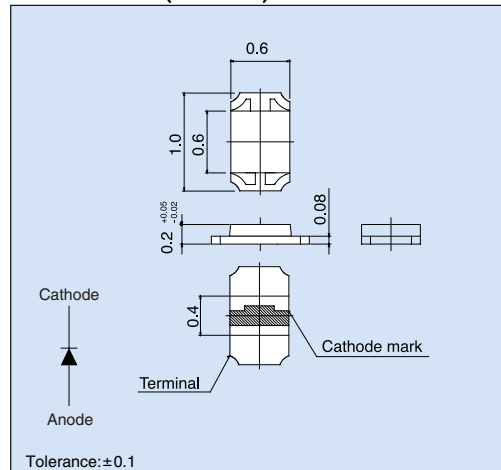
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current *I _{FP} (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SML-P12PT	Pure Green	54	20	100	5	-40 to +85	-40 to +100
SML-P12MT	Green (Yellowish Green)	54					
SML-P12YT	Yellow	52					
SML-P12DT	Orange	52					
SML-P12UT	Red	50					
SML-P12VT	Red	50					

*:Duty $\leq 1/10$, 1kHz.

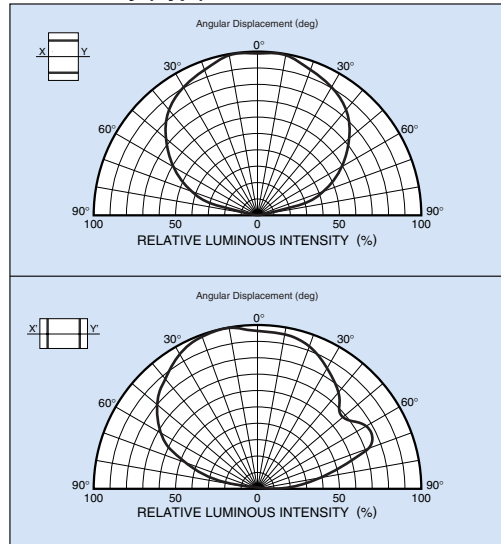
■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Dominant λD		Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SML-P12PT		2.2				560		4.0	13	
SML-P12MT		2.2				572		10	35	
SML-P12YT	Transparent Colorless	2.1	20	100	4	590	20	40	130	20
SML-P12DT		2.1				605		40	100	
SML-P12UT		2.0				620		25	85	
SML-P12VT		2.0				630		25	60	

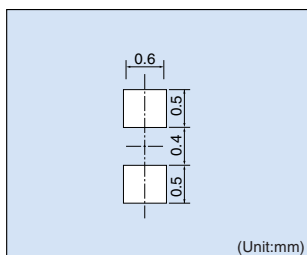
■Dimensions (Unit:mm)



■ Directivity (Typ.)

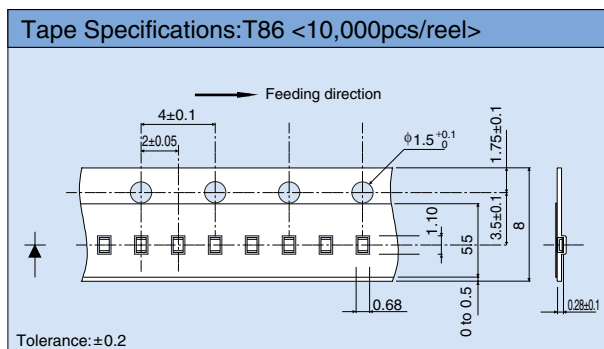


■ Recommended Pad Layout

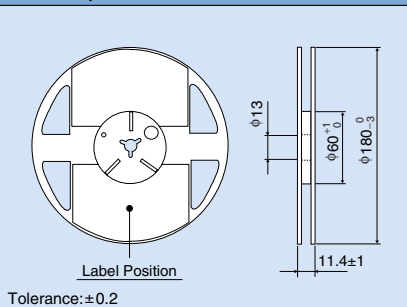


The recommended thickness of the screen mask for soldering is between 80 and 130 μ m. The hole size of the screen mask should be same as the recommended land pattern or smaller.

■ Packaging Specifications (Unit:mm)

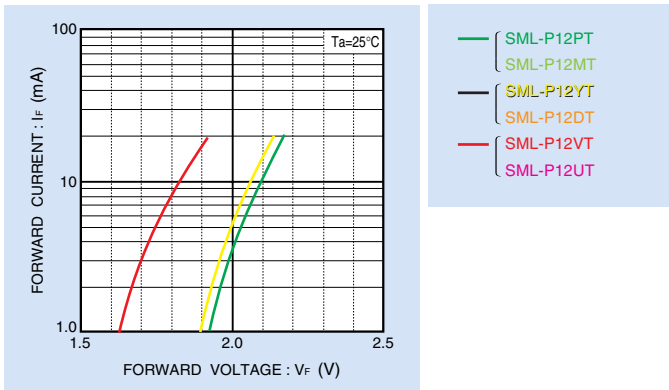


Reel Specifications

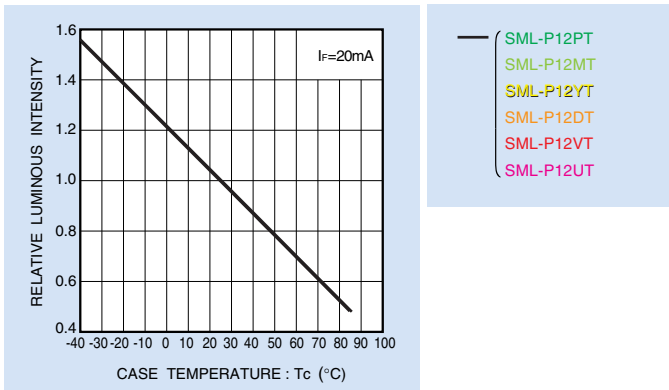


■Electrical Characteristic Curves

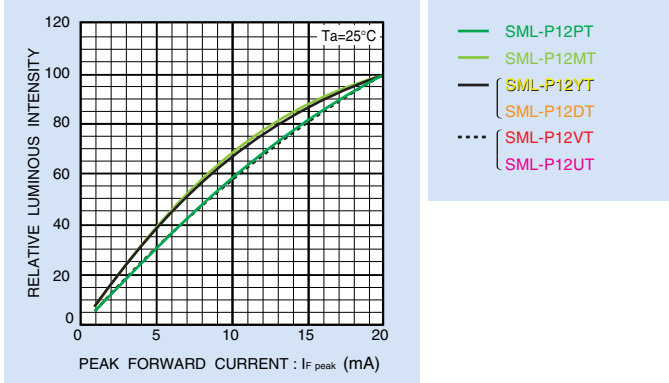
Forward Current - Forward Voltage



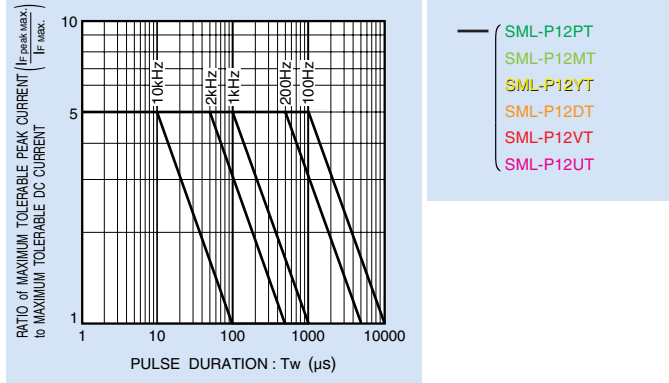
Relative Luminous Intensity - Case Temperature



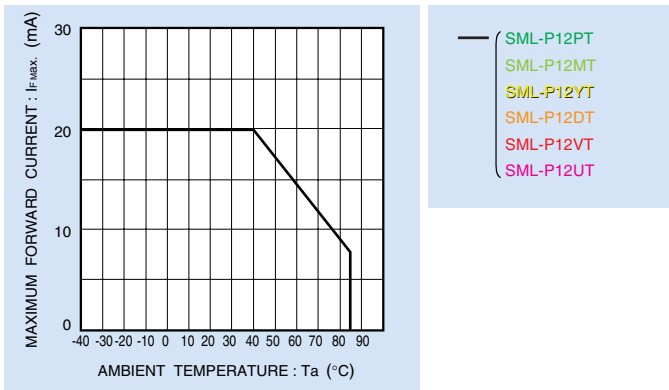
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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