

Chip LEDs with Reflector 1208<3.0×2.0 t=1.3mm> Standard Type

SML-012*8 Series EXCELED™

Tentative Spec

Emitting Color	Pure Green	Green(Yellowish Green)	Yellow	Orange	Red	
Material	AlGaInP on GaAs					
Package Size(mm)						
 3020(1208) 3.0×2.0(t=1.3)						
Part No.	SML-012P8T	SML-012M8T	SML-012Y8T	SML-012D8T	SML-012U8T	SML-012V8T

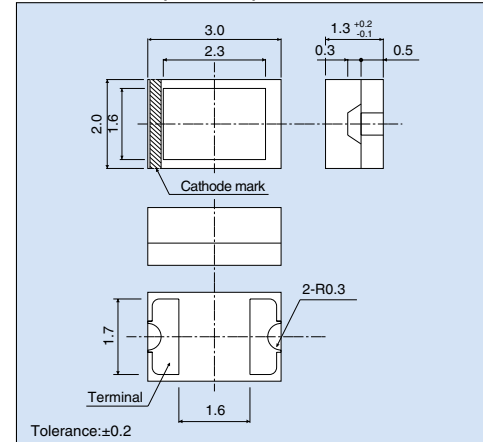
note) "-" will be taken out for emitting color B/E series.

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-012P8T	Pure Green	54	20	100	5	-40 to +85	-40 to +100
SML-012M8T	Green (Yellowish Green)						
SML-012Y8T	Yellow						
SML-012D8T	Orange						
SML-012U8T	Red						
SML-012V8T	Red						

*:Duty ≤ 1/10, 1KHz.

Dimensions (Unit:mm)

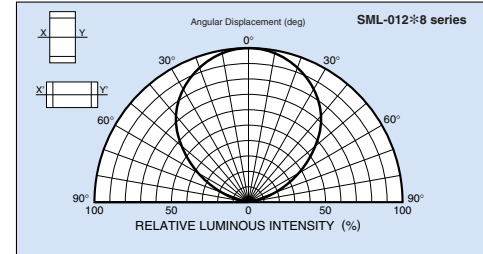


Electrical Optical Characteristics (Ta=25°C)

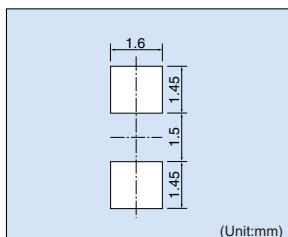
Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Dominant λ _D		Brightness I _v		
		Typ. (V)	I _F [*] (mA)	Max. (μA)	V _R (V)	Typ. (nm)	I _F [*] (mA)	Min. (mcd)	Typ. (mcd)	I _F [*] (mA)
SML-012P8T	Transparent Colorless	2.2	20	10	4	560	20	2.5	6.3	20
SML-012M8T						572		10	25	
SML-012Y8T						590		63	160	
SML-012D8T						605		40	100	
SML-012U8T						620		25	63	
SML-012V8T						630				

*Pulse width : 30ms

Directivity (Typ.)

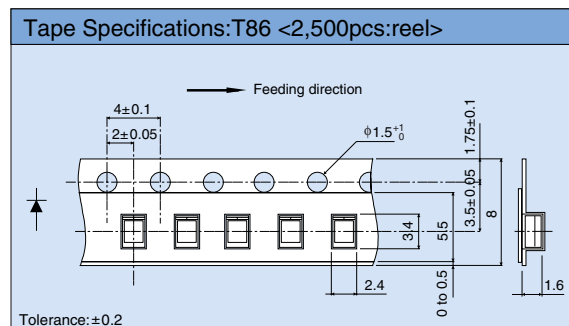


Recommended Pad Layout

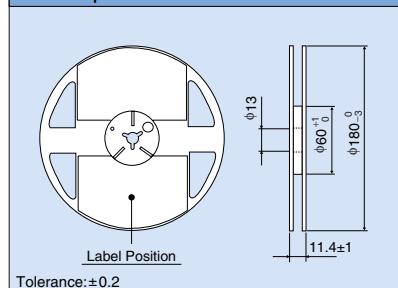


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)



Reel Specifications



Notes

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