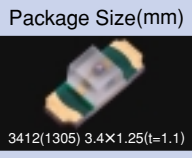


Reverse Mount Chip LEDs 1305 <3.4×1.25 t=1.1mm> Low Current Type(I_F≤10mA)

SML-811 Series



Emitting Color	Yellow	Orange	Red
Material	AlGaInP on GaAs		
Package Size(mm)	 3412(1305) 3.4×1.25(t=1.1)		
Part No.	SML-811WT(A)	SML-811DT(A)	SML-811UT(A)

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} (℃)	Storage temperature T _{stg} (℃)
SML-811WT(A)	Yellow	62	25	100	5	-40 to +85	-40 to +100
SML-811DT(A)	Orange						
SML-811UT(A)	Red						

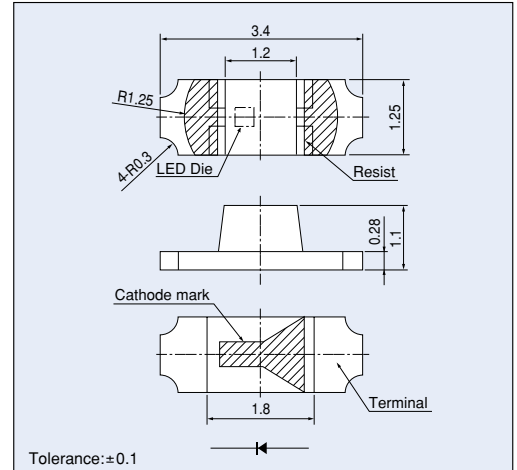
*: Duty ≤ 1/10, pulse width ≤ 0.1ms.

Electrical Optical Characteristics (Ta=25℃)

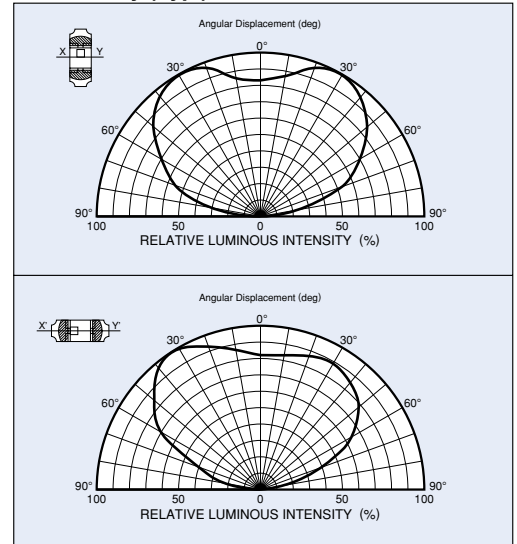
Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Peak λ _p Half-wave Δλ			Brightness I _v		
		Typ. (V)	I _F * (mA)	Max. (μA)	V _R (V)	Typ. (nm)	Typ. (nm)	I _F * (mA)	Min. (mcd)	Typ. (mcd)	I _F * (mA)
SML-811WT(A)	Transparent Colorless	1.95	10	100	5	590	15	10	14	28	10
SML-811DT(A)						611	16		11.2	22.4	
SML-811UT(A)						630	18				

*: Pulse width : 30ms

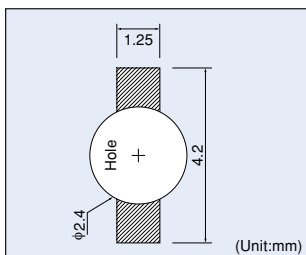
Dimensions (Unit:mm)



Directivity (Typ.)

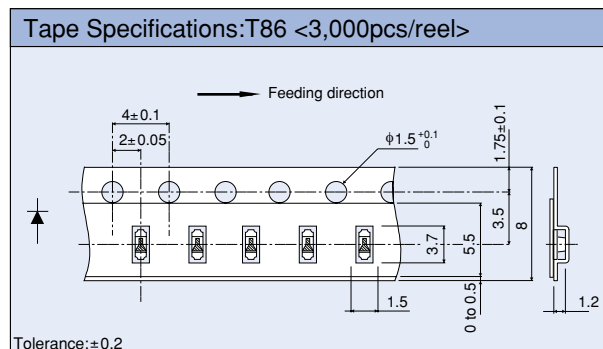


Recommended Pad Layout

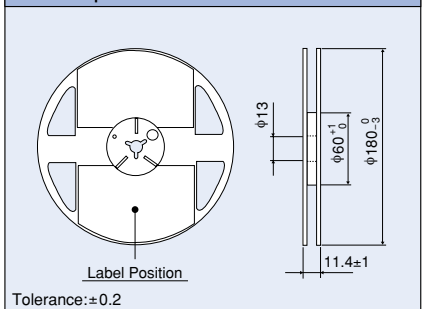


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)

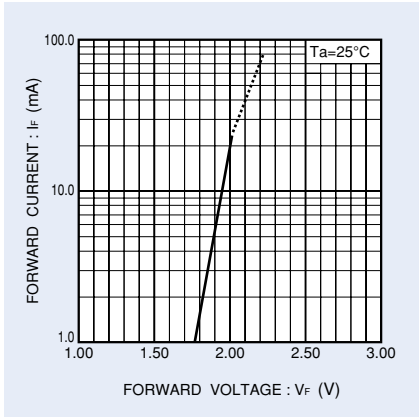


Reel Specifications



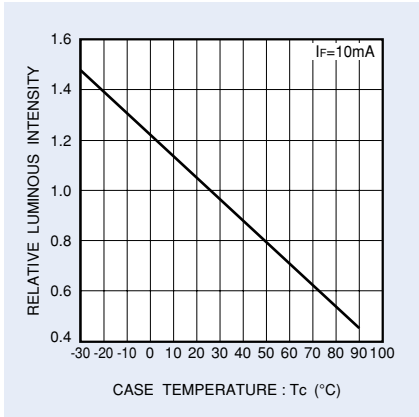
■Electrical Characteristic Curves

Forward Current - Forward Voltage



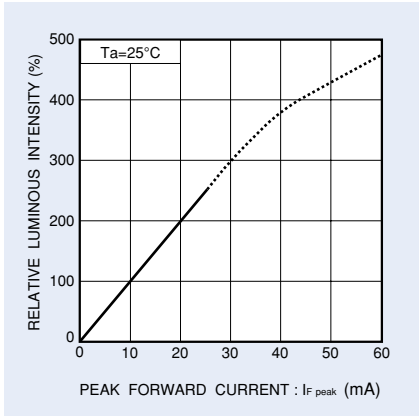
— (SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

Relative Luminous Intensity - Case Temperature



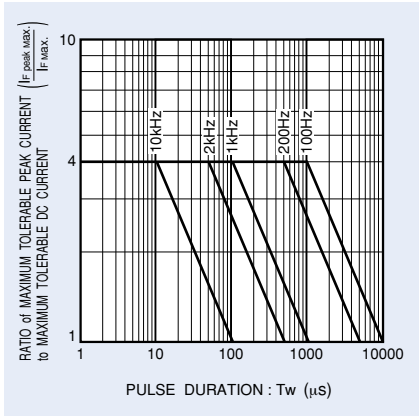
— (SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

Relative Luminous Intensity - Forward Current



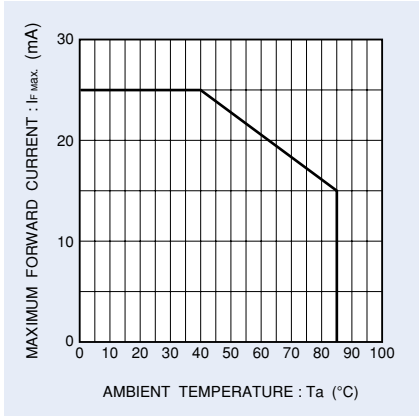
— (SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

Ratio of Maximum Tolerable Peak Current - Pulse Duration



— (SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

Derating



— (SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

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