Reverse Mount Chip LEDs 1305 <3.4×1.25 t=1.1mm> Low Current Type(IF≦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 C)

Part No.	Emitting color	Power dissipation P _D (mW)	Forward current IF (mA)	Peak forward current *IFP (mA)	Reverse voltage V _R (V)	Operating temperature Topr	Storage temperature T _{stg} (C)
SML-811WT(A)	Yellow						
SML-811DT(A)	Orange	62	25	100	5	-40 to +85	-40 to +100
SML-811UT(A)	Red						

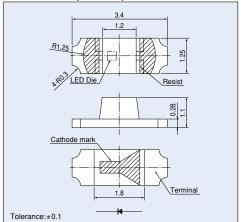
^{*}: Duty \leq 1/10, pulse width \leq 0.1 ms.

■ Electrical Optical Characteristics (Ta=25 C)

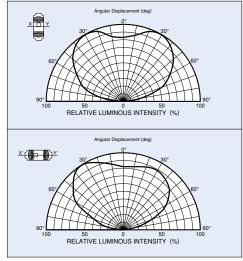
Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lf * (mA)	Max. (μ A)	VR (V)	Typ. (nm)	Typ. (nm)	lF * (mA)	Min. (mcd)	Typ. (mcd)	lF* (mA)
SML-811WT(A)	Transparent Colorless					590	15		14	28	
SML-811DT(A)		1.95	10	100	5	611	16	10	11.2	22.4	10
SML-811UT(A)						630	18		11.2	22.4	

^{*:} Pulse width : 30ms

■ Dimensions (Unit:mm)



■Directivity (Typ.)

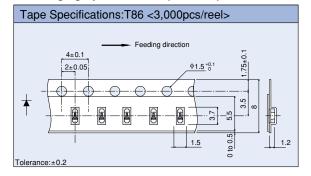


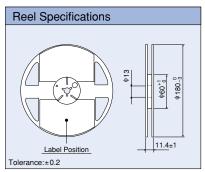
■ Recommended Pad Layout

1.25 | Table |

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

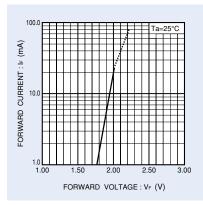
■Packaging Specifications (Unit:mm)





■Electrical Characteristic Curves

Forward Current - Forward Voltage



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

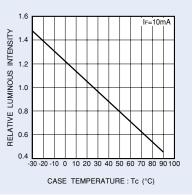
Relative Luminous Intensity - Case Temperature

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

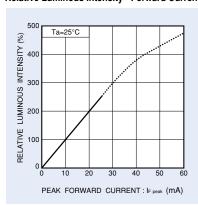
SML-811UT(A)

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

SML-811UT(A)

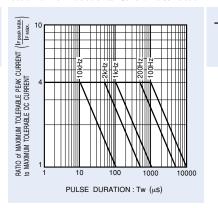


Relative Luminous Intensity - Forward Current

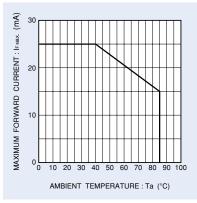


SML-811WT(A) SML-811DT(A) SML-811UT(A)

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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

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