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



SML-811 Series





■ Absolute Maximum Ratings (Ta=25 C)

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

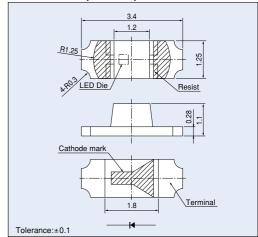
^{*:} Duty $\leq 1/10$, pulse width ≤ 0.1 ms.

■ Electrical Optical Characteristics (Ta=25 C)

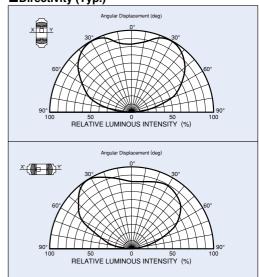
Part No.	Resin Color			Reverse current		Light wavelength Peak Half-wave			Brightness Iv		
		Typ.	lF * (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF * (mA)	Min. (mcd)	Typ. (mcd)	lF* (mA)
SML-811WT(A)	Transparent Colorless					590	15		14	28	
SML-811DT(A)		1.95	10	100	5	611	16	10	11.2	22.4	10
SML-811UT(A)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

^{*:} Pulse width : 30ms

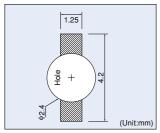
■Dimensions (Unit:mm)



■Directivity (Typ.)

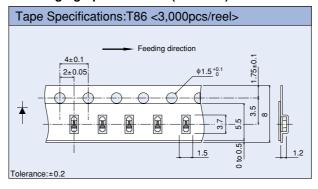


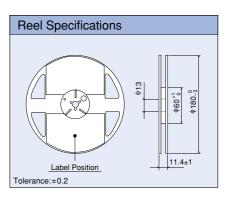
■ Recommended Pad Layout



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.

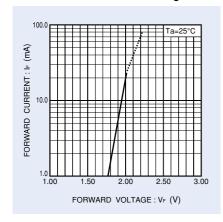
■ Packaging Specifications (Unit:mm)





■Electrical Characteristic Curves

Forward Current - Forward Voltage



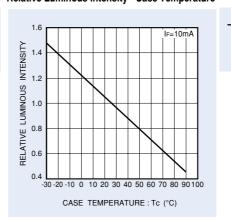
SML-811WT(A)
SML-811DT(A)
SML-811UT(A)

Relative Luminous Intensity - Case Temperature

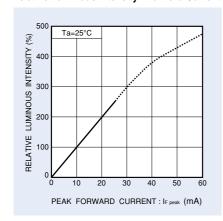
SML-811WT(A) SML-811DT(A)

SML-811UT(A)

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

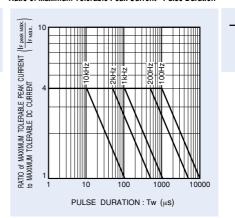


Relative Luminous Intensity - Forward Current

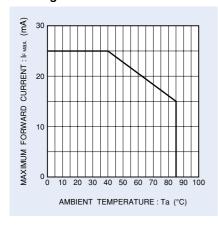


SML-811WT(A) SML-811DT(A) SML-811UT(A)

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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

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