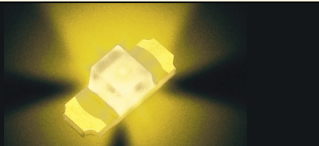
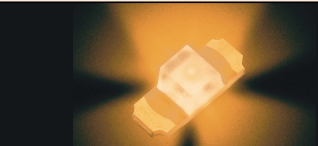



Low Current Type ($I_F \leq 10\text{mA}$) Back-fire chip LEDs(Reverse package)

SML-811 Series

Package Size (mm)	Yellow	Orange	Red
	590nm	611nm	630nm
3412 (1305) 3.4×1.24 t=1.1			
	SML-811WT	SML-811DT	SML-811UT

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

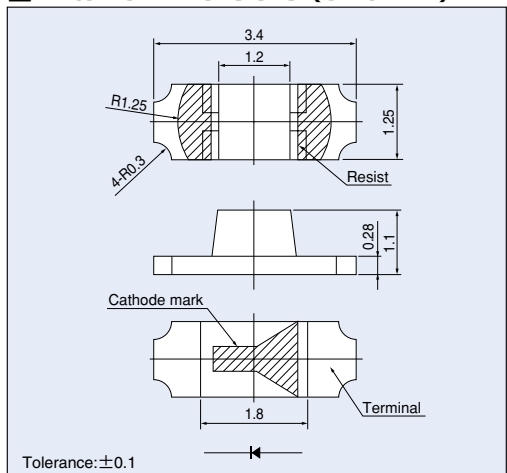
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current * I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} ($^\circ\text{C}$)	Storage temperature T_{stg} ($^\circ\text{C}$)
SML-811WT	Yellow	62	25	100	5	-40 to +85	-40 to +100
SML-811DT	Orange						
SML-811UT	Red						

* I_{FP} measured under duty $\leq 1/10$, pulse width $\leq 0.1\text{ms}$.

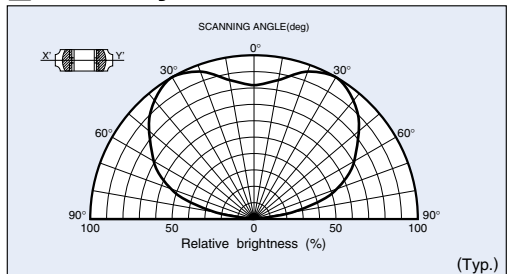
Electrical Optical Characteristics ($T_a=25^\circ\text{C}$)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength			Brightness I_v		
		Typ. (V)	I_F (mA)	Max. (μA)	V_R (V)	Peak λ_p Typ. (nm)	Half-wave $\Delta\lambda$ Typ. (nm)	I_F (mA)	Min. (mcd)	Typ. (mcd)	I_F (mA)
SML-811WT	Transparent Clear	1.95	10	100	5	590	15	10	9	18	10
SML-811DT						611	16		11.2	22.4	
SML-811UT						630	18				

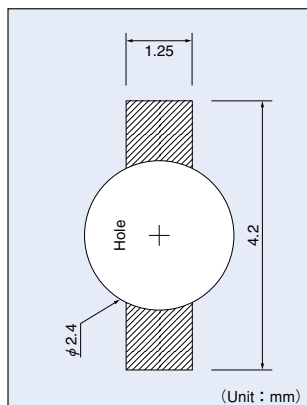
External Dimensions (Unit : mm)



Directivity

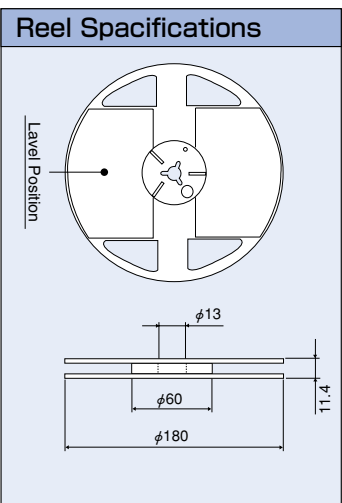
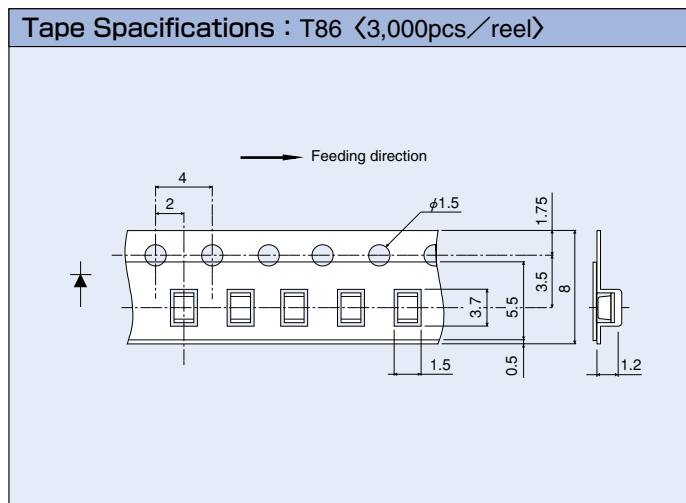


Recommended Pad Layout



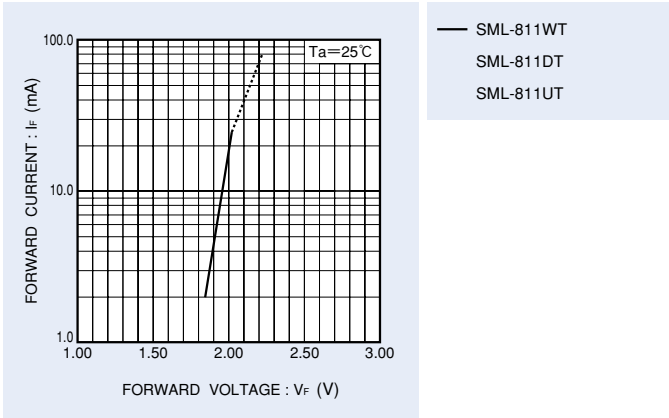
The recommended thickness of the screen mask for soldering is between 100 and 200 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

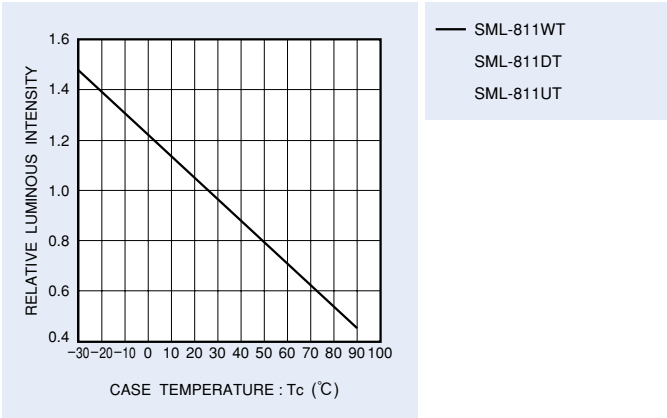


Electrical Characteristic Curves

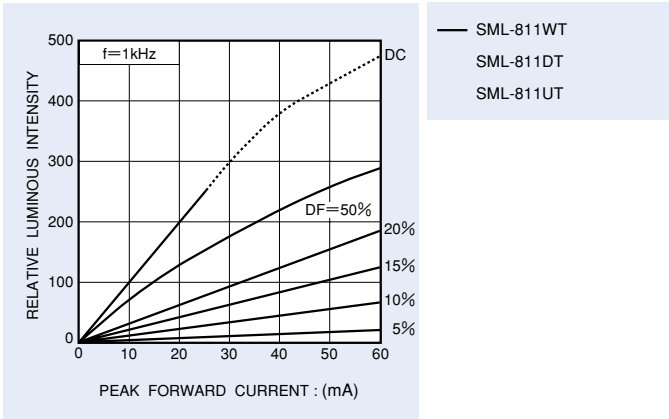
Forward Current - Forward Voltage



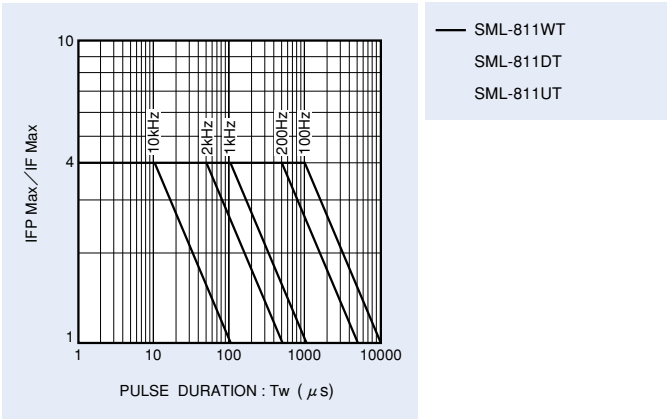
Relative Luminous Intensity - Case Temperature



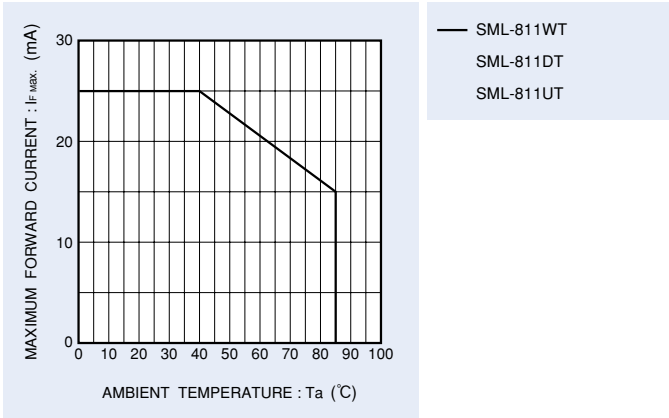
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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