

Low Current Type ($I_F \leq 10\text{mA}$) Mini-molded chip LEDs

SML-211 Series

Package Size (mm)	Yellow	Orange	Red
	590nm	611nm	630nm
2012 (0805) 2.0×1.25 t=0.8			
	SML-211YT	SML-211DT	SML-211UT

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

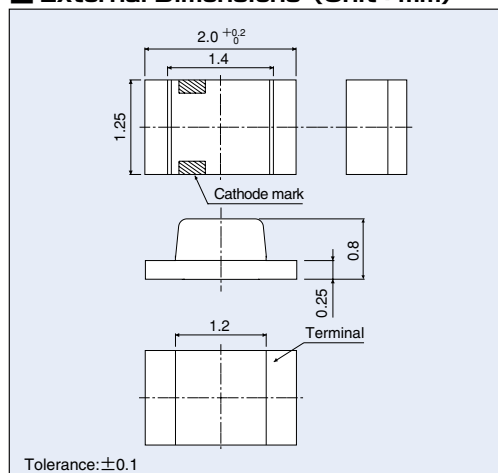
Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)	Peak forward current * I_{FP} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} ($^\circ\text{C}$)	Storage temperature T_{stg} ($^\circ\text{C}$)
SML-211YT	Yellow	44	20	60	4	-30 to +85	-40 to +85
SML-211DT	Orange						
SML-211UT	Red						

* I_{FP} measured under duty $\leq 1/5$, pulse width $\leq 1\text{ms}$.

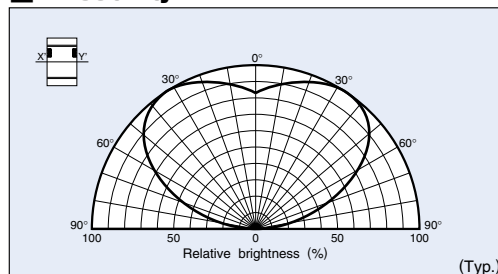
Electrical Optical Characteristics ($T_a=25^\circ\text{C}$)

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-211YT	Transparent Clear	1.8	2	100	4	590	15		1.4	4	
SML-211DT						611	16	2	0.9	2.5	2
SML-211UT						630	18				

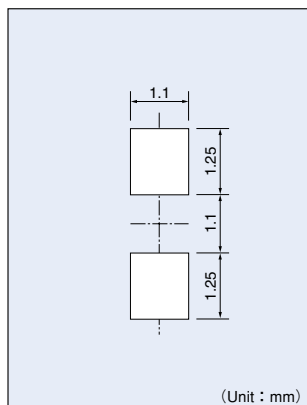
External Dimensions (Unit : mm)



Directivity

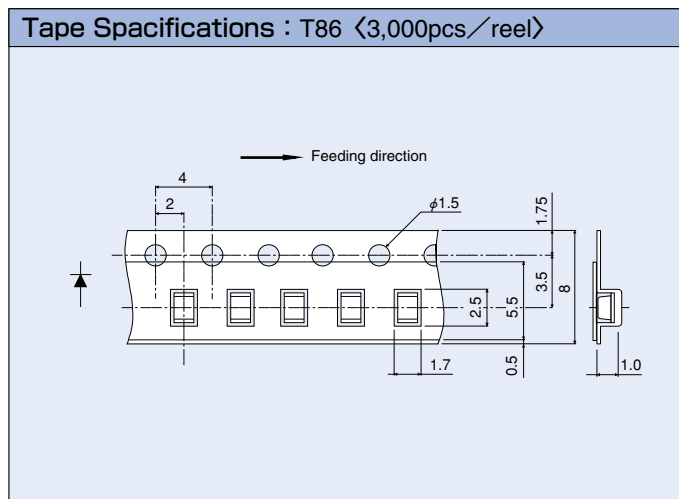


Recommended Pad Layout

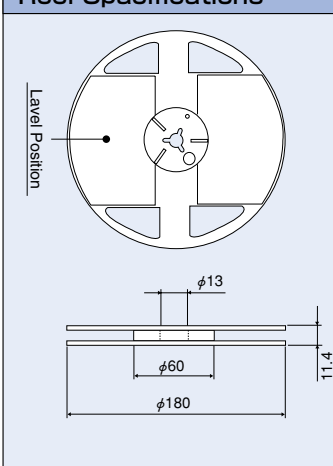


The recommended thickness of the screen mask for soldering is between 100 and 200 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

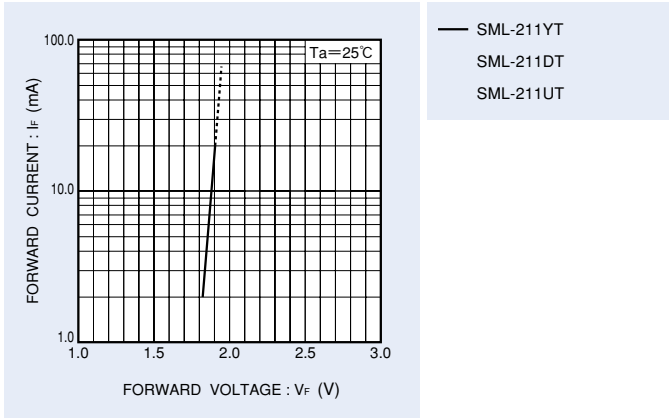


Reel Specifications

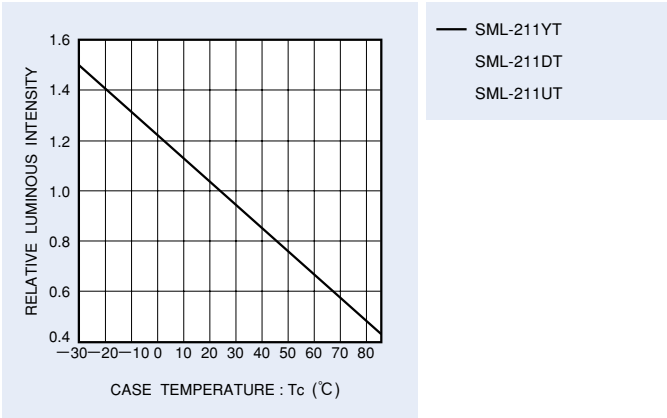


Electrical Characteristic Curves

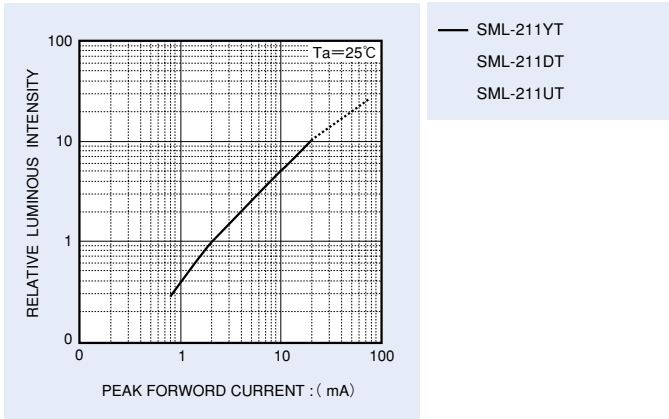
Forward Current - Forward Voltage



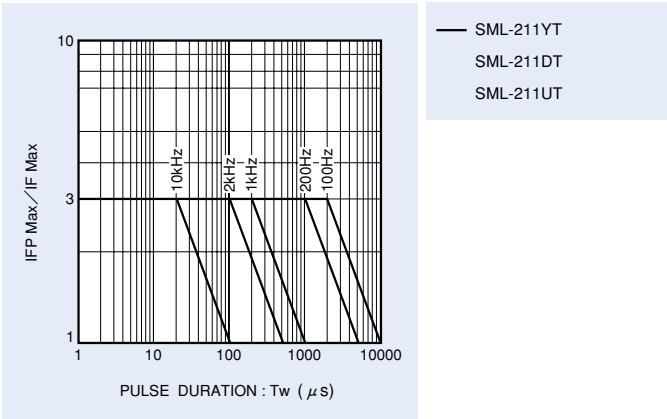
Relative Luminous Intensity - Case Temperature



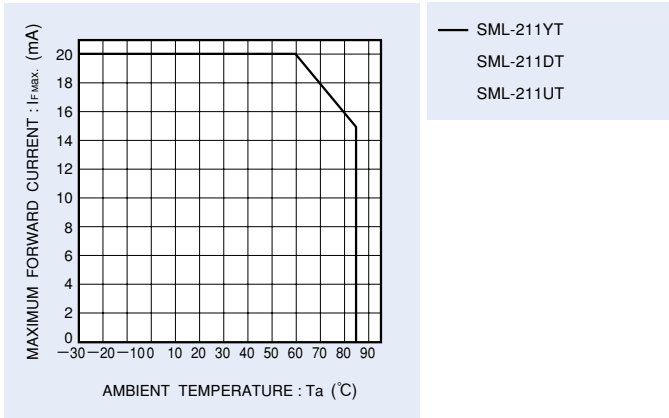
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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