Low Current Type (IF≦10mA) Mini-molded chip LEDs

SML-211 Series

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

Absolute Maximum Ratings (Ta=25°C)

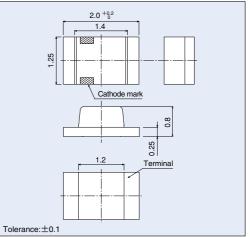
Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current * IFP (mA)	Reverse voltage VR (V)	Operating temperature T _{opr} (°C)	Stotage temperature Tstg (°C)	
SML-211YT	Yellow							
SML-211DT	Orange	44	20	60	4	-30 to +85	-40 to +85	
SML-211UT	Red]						

* IFP measured under duty \leq 1/ 5,pulse width \leq 1ms.

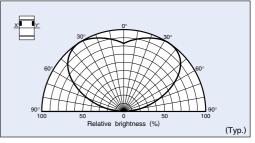
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	volt	Forward Rever voltage curre VF IR		rent	Light wavelength Peak Half-wave λp Δλ			Brightness Iv		
		Тур. (V)	lF (mA)	Max. (μΑ)	Vr (V)	Typ. (nm)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	l⊧ (mA)
SML-211YT	Transparent Clear					590	15		1.4	4	
SML-211DT		1.8	2	100	4	611	16	2	0.9	2.5	2
SML-211UT						630	18		0.9	2.5	

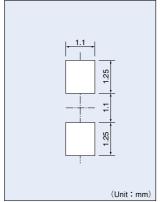
External Dimensions (Unit : mm)



Directivity

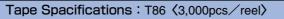


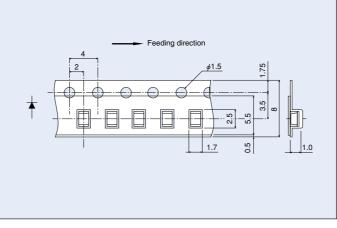
Recommemded Pad Layout

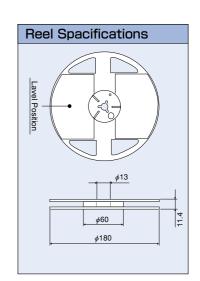


The recommended thickness of the screen mask for soldering is between 100 and $200\,\mu$ m. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Spacifications (Unit : mm)

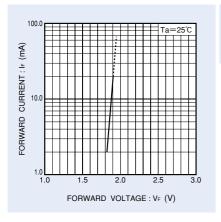






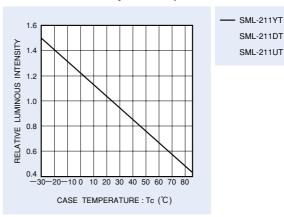
Electrical Characteristic Curves

Forward Current - Forward Voltage

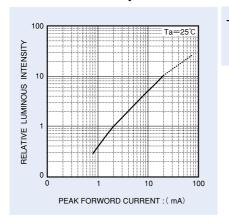


SML-211YT SML-211DT SML-211UT

Relative Luminous Intensity - Case Temperature

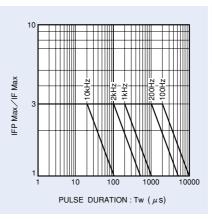


Relative Luminous Intensity - Forward Current



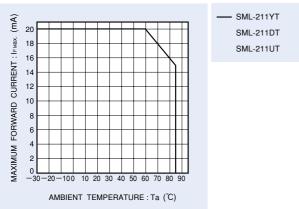
- SML-211YT SML-211DT SML-211UT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-211YT SML-211DT SML-211UT

Derating



Notes

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