Side View Chip LEDs 0605<1.6×1.15 t=0.55mm> High Brightness Type



SML-A12 Series Side View

Emitting Color	Green(Yellowish Green)	Yellow	Orange	Red
Material				
Package Size(mm)				
1611(0605) 1.6×1.15(t=0.55)				1
Part No.	SML-A12MT	SML-A12WT	SML-A12DT	SML-A12UT

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)	Storage temperature Tstg (°C)
SML-A12MT	Green (Yellowish Green)	65	25			-30 to +85	-40 to +85
SML-A12WT	Yellow			100	5		
SML-A12DT	Orange	75	30	100	5	-40 to +85	-40 to +100
SML-A12UT	Red						

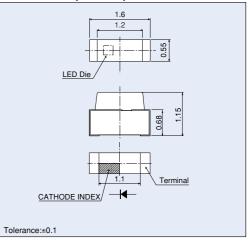
*:Duty ≦ 1/10, 1kHz.

Electrical Optical Characteristics (Ta=25°C)

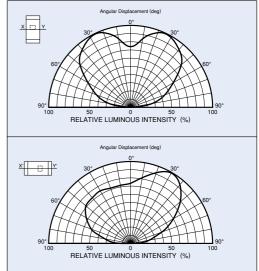
Part No.	Resin Color	Forward voltage VF		Reverse current In		Light wavelength Peak Half-wave λp Δλ			Brightness Iv		
		Тур. (V)	l⊧* (mA)	Max. (μA)	Vr (V)	Typ. (nm)	Typ. (nm)	l⊧* (mA)	Min. (mcd)	Typ. (mcd)	l ⊧ ≭ (mA)
SML-A12MT		2.1		100		570	18		14	40	
SML-A12WT	Transparent		20			590	15	20		63	20
SML-A12DT	Colorless	2.0	20	10	5	611	16	20	36	100	20
SML-A12UT						630	18			100	

*Pulse width : 30ms

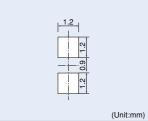
Dimensions (Unit:mm)



Directivity (Typ.)

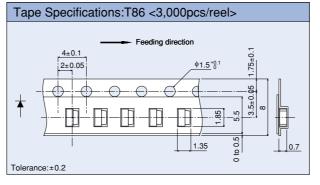


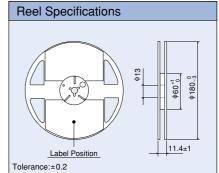
■Recommended Pad Layout



The recommended thickness of the screen mask for soldering is more than 150 $\mu\text{m}.$ The hole size of the screen mask should be same as the recommended land pattern or smaller.

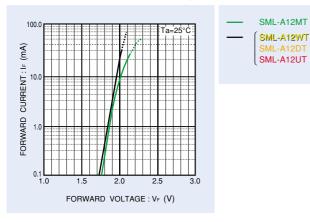
■ Packaging Specifications (Unit:mm)



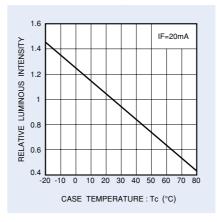


■Electrical Characteristic Curves

Forward Current - Forward Voltage

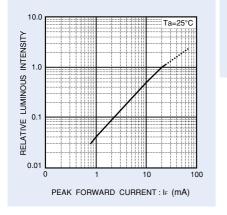


Relative Luminous Intensity - Case Temperature



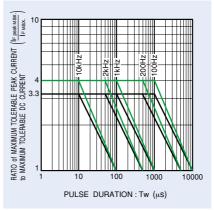


Relative Luminous Intensity - Forward Current



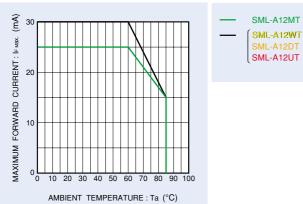
- SML-A12MT SML-A12WT SML-A12DT SML-A12UT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



SML-A12MT SML-A12WT SML-A12DT SML-A12UT

Derating



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