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



SML-A12 Series

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

■ 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 VR (V)	Operating temperature Topr (°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						

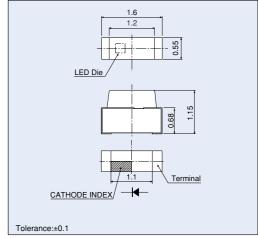
^{*:}Duty ≦ 1/10, 1kHz.

■Electrical Optical Characteristics (Ta=25°C)

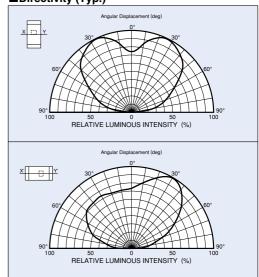
Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Peak Half-wave λρ Δλ			Brightness Iv		
		Typ.	lF* (mA)	Max. (μA)	VR (V)	Typ. (nm)	Typ. (nm)	lF* (mA)	Min. (mcd)	Typ. (mcd)	lF* (mA)
SML-A12MT		2.1		100		570	18		14	40	
SML-A12WT	Transparent		20		_	590	15	20		63	20
SML-A12DT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

*Pulse width : 30ms

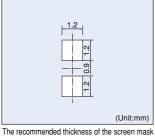
■ Dimensions (Unit:mm)



■Directivity (Typ.)

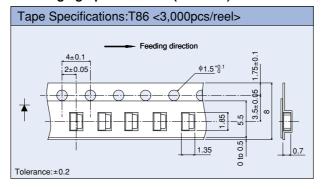


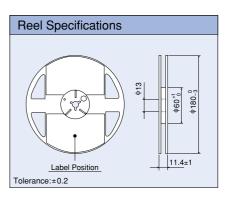
■Recommended Pad Layout



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.

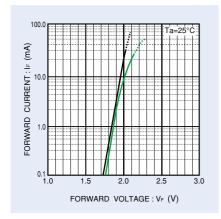
■ Packaging Specifications (Unit:mm)





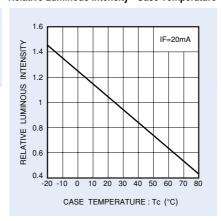
■Electrical Characteristic Curves

Forward Current - Forward Voltage



— SML-A12MT
— (SML-A12WT
SML-A12DT
SML-A12UT

Relative Luminous Intensity - Case Temperature

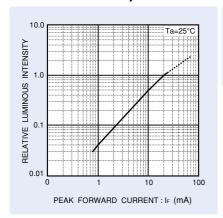


SML-A12MT SML-A12WT SML-A12DT SML-A12UT

SML-A12MT

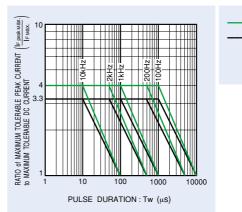
SML-A12WT SML-A12DT SML-A12UT

Relative Luminous Intensity - Forward Current

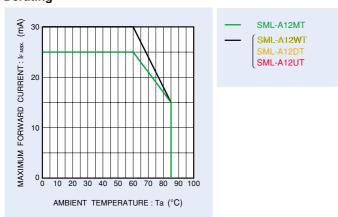


SML-A12MT SML-A12WT SML-A12DT SML-A12UT

Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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