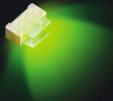
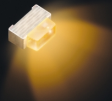
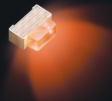
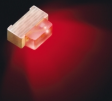


High Brightness Type Side view chip LEDs

SML-A12 Series

Package Size (mm)	Green	Yellow	Orange	Red
	AlGaInP on GaAs			
	570nm	590nm	611nm	630nm
1611 (0605) 1.6×1.15 t=0.55				
	SML-A12MT	SML-A12WT	SML-A12DT	SML-A12UT

Absolute Maximum Ratings (Ta=25°C)

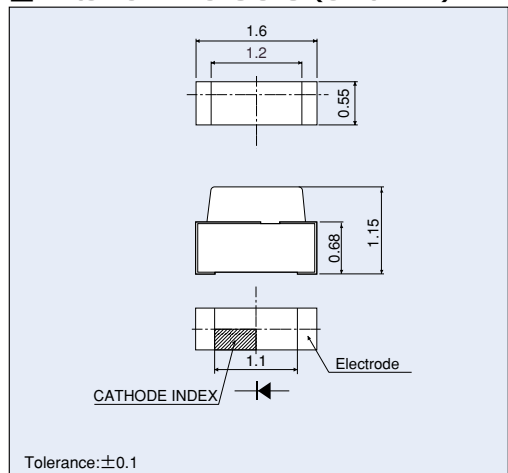
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current * I _{FP} (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Stotage temperature T _{stg} (°C)
SML-A12MT	Green	65	25	100	5	-30 to +85	-40 to +85
SML-A12WT	Yellow	75	30			-40 to +85	-40 to +100
SML-A12DT	Orange						
SML-A12UT	Red						

* I_{FP} measured under duty ≤ 1/5, pulse width ≤ 1ms.

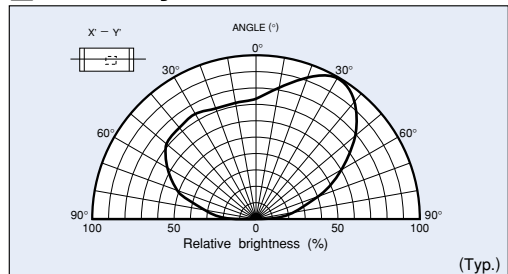
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Peak Half-wave			Brightness I _v					
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Typ. (nm)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)			
SML-A12MT	Transparent Clear	2.1	20	100	5	570	18	20	14	40	20			
SML-A12WT		2.0				590	15		36	63				
SML-A12DT						611	16			100				
SML-A12UT						630	18							

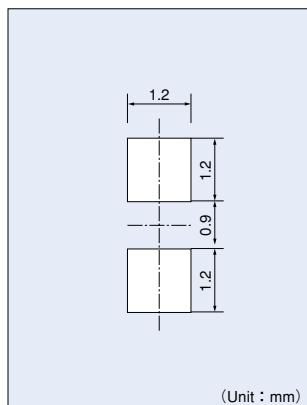
External Dimensions (Unit : mm)



Directivity

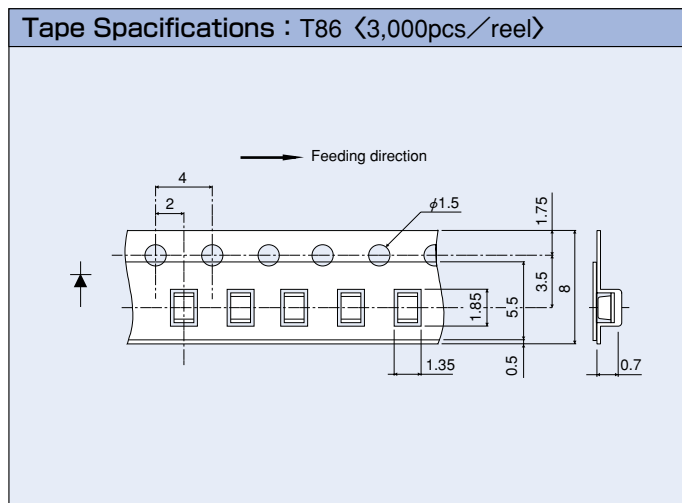


Recommended Pad Layout

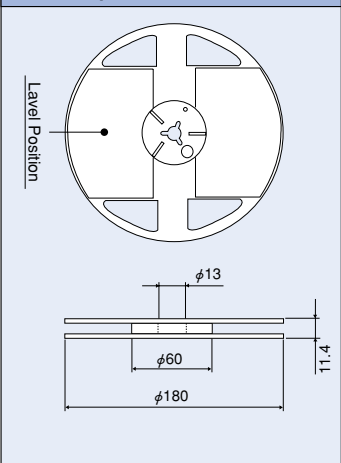


The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit : mm)

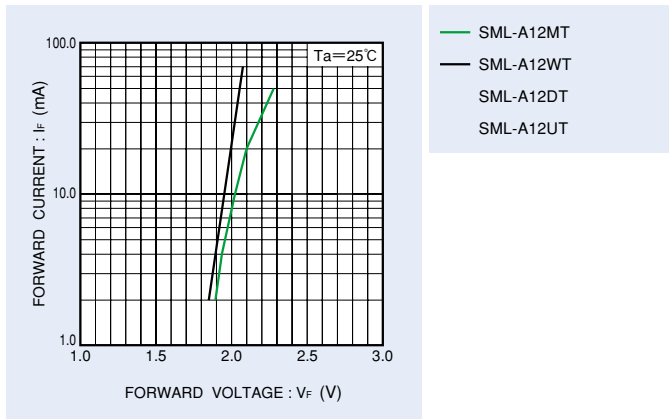


Reel Specifications

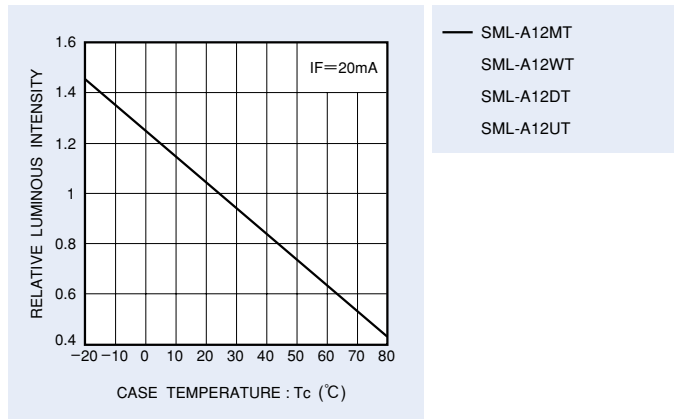


Electrical Characteristic Curves

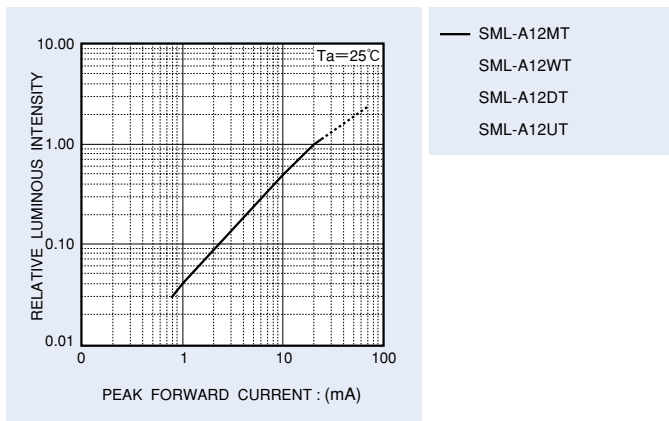
Forward Current - Forward Voltage



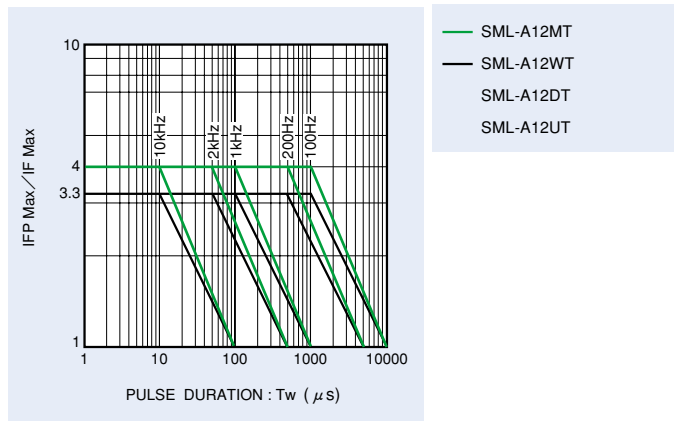
Relative Luminous Intensity - Case Temperature



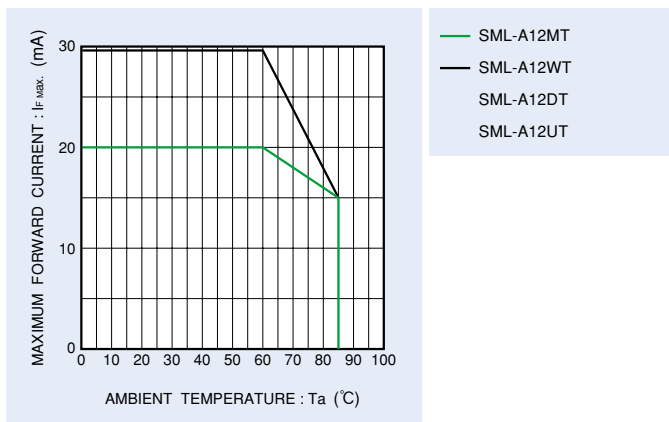
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



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