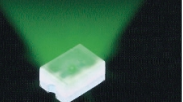
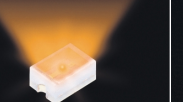
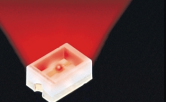


High Brightness Type Chip LEDs with reflector

[查询"SML-01"供应商](#)

SML-01 * Series

Package Size (mm)	Blue			Green		Yellow		Orange		Red	
	GaN on SiC	InGaN on SiC			AlGaInP on GaAs						
	428nm	468nm		525nm		590nm		611nm		630nm	
3216 (1206) 3.0×2.0 t=1.3											
	SML010BAT	SML011BBT	SML012BCT	SML011EBT	SML012ECT	SML-011YT	SML-012YT	SML-011DT	SML-012DT	SML-011UT	SML-012UT

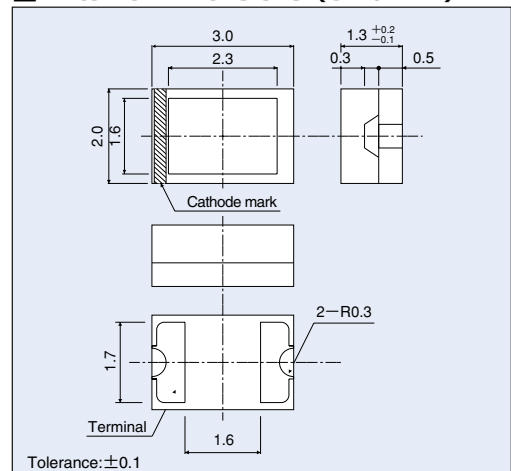
Note) "-" will be taken out for emitting color B/E series.

■ 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)	Storage temperature T _{stg} (°C)
SML010BAT	Blue	94	20	70	5	-30 to +85	-40 to +100
SML011BBT		84		100			
SML012BCT							
SML011EBT	Green	84	20	100	5	-30 to +85	-40 to +100
SML012ECT	Yellow						
SML-011YT		75	30	100	-40 to +100	-40 to +100	
SML-012YT							
SML-011DT							
SML-012DT	Orange	75	30	100	-40 to +100	-40 to +100	
SML-011UT	Red						
SML-012UT							

* Ifp measured under duty ≤1/10, 1kHz.

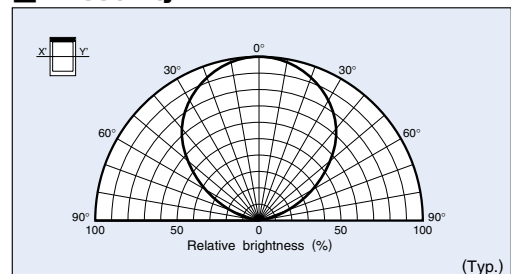
■ External Dimensions (Unit : mm)



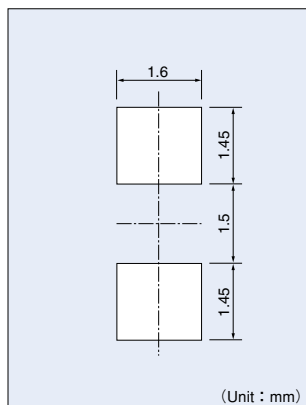
■ Electrical Optical Characteristics (Ta=25°C)

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	Half-wave Δλ	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)	
						Typ. (nm)	Typ. (nm)					
SML010BAT	Transparent Clear	3.8	20	100	5	428	65	20	3.6	9	20	
SML011BBT		3.5				468	26		22	36		
SML012BCT						523	36		36	100		
SML011EBT		3.8		20		5	518		35	56		140
SML012ECT							590		15	140		360
SML-011YT		2.0		10			611		17	22		63
SML-012YT							630		18	36		100
SML-011DT												
SML-012DT												
SML-011UT												
SML-012UT												

■ Directivity

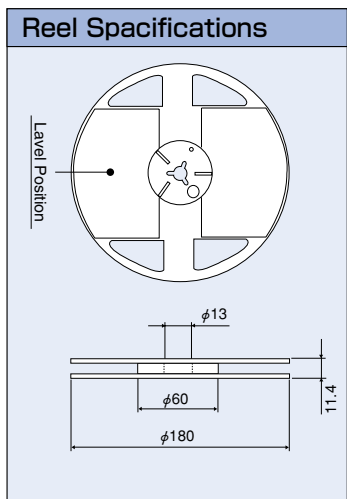
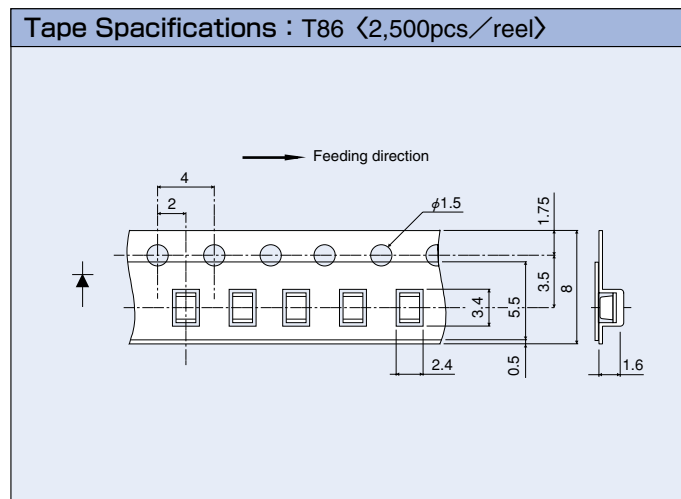


■ Recommended Pad Layout



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

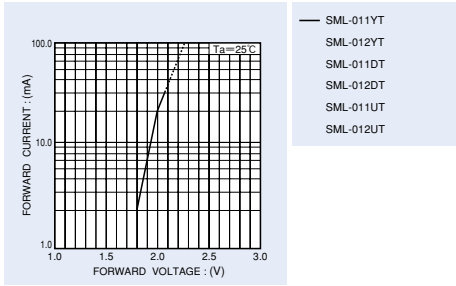
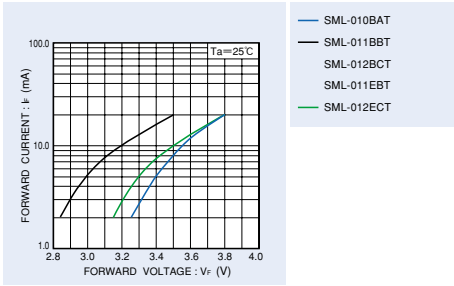
■ Packaging Specifications (Unit : mm)



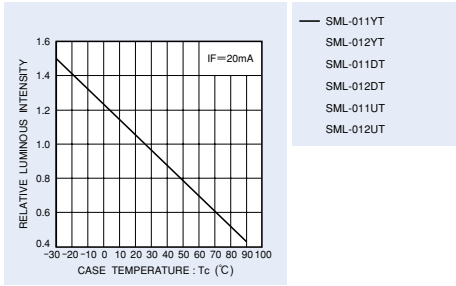
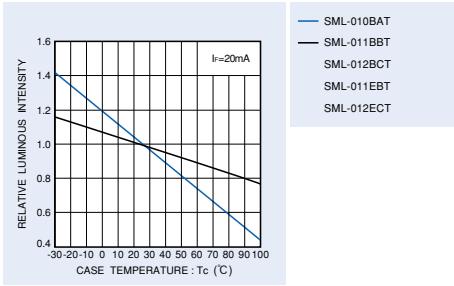
[查询"SML-01"供应商](#)

Electrical Characteristic Curves

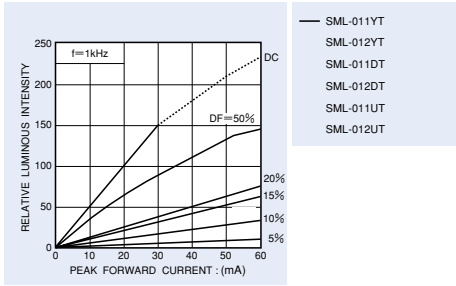
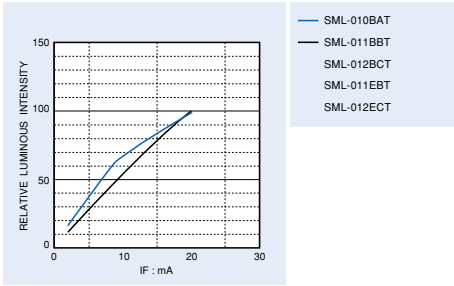
Forward Current - Forward Voltage



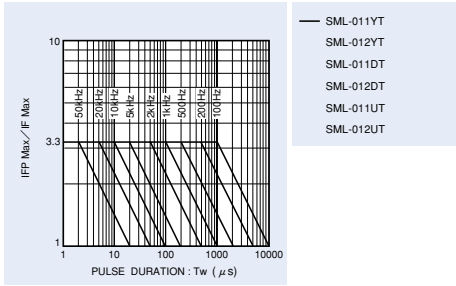
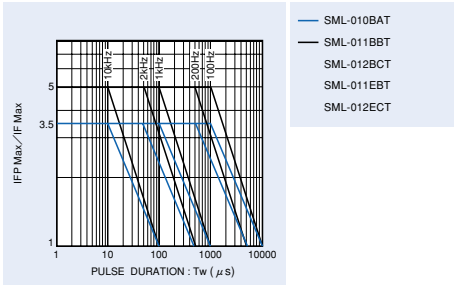
Relative Luminous Intensity - Case Temperature



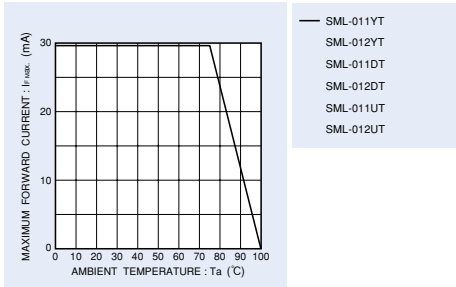
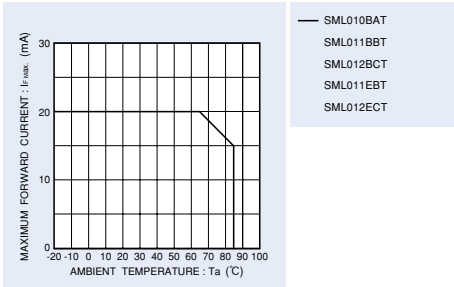
Relative Luminous Intensity - Forward Current



Ratio of Maximum Tolerable Peak Current - Pulse Duration



Derating



Appendix

Notes

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