

# SML-02 Series




3025(1210)  
 3.0×2.5mm(t=1.3mm)

## Features

•2-color type with reflector (standard)

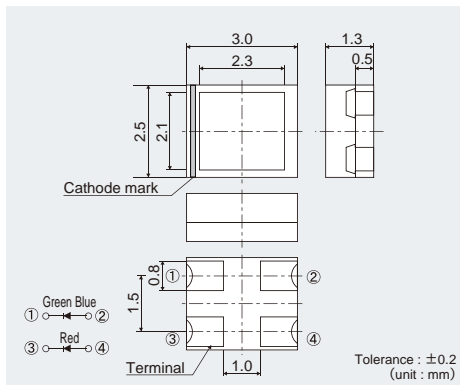
Color Type   

## Specifications

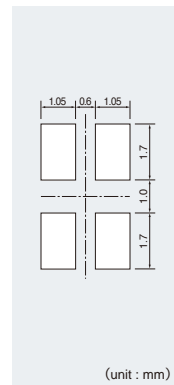
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)										
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IFF(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ. (V)	IF(mA)	Reverse Current IR Max. (μA)	VR(V)	Dominant Wavelength λD Min.*3 Typ. (nm) Max.*3 (nm)				IF(mA)	Luminous Intensity Iv Min. (mcd) Typ. (mcd) IF(mA)	
 SML022BUT	InGaP	Blue	120	30	80*2	5		-40 to +100	3.2			5	464	470	476		56	140	
	AlGaInP on GaAs	Red	75						2				619	624	629		90	220	
 SML-020MVT	GaAsP on GaAs	Green	60	25	60*1		-30 to +85	-40 to +85	2.2	20	100		569	572	575	20	9	20	20
		Red							2				625	630	635		3.6	6.3	
 SML-022ML8T	AlGaInP on GaAs	Green	52	20	60*2	4		-40 to +100	2.1				569	572	575		16	40	
		Red											630	635	640		10	20	

\*1:Duty1/5, 200Hz \*2:Duty1/10, 1kHz \*3:Reference

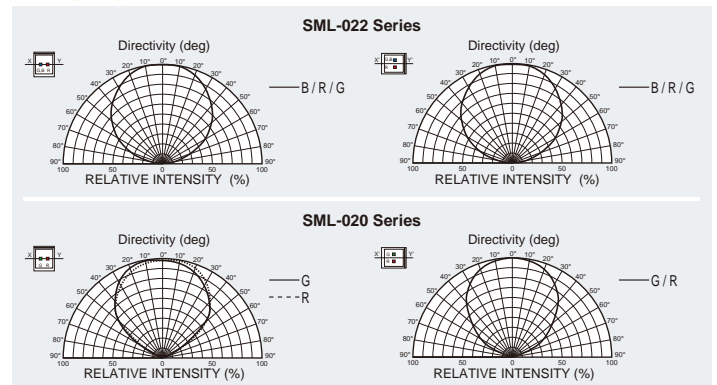
## Dimensions



## Recommended Solder Pattern

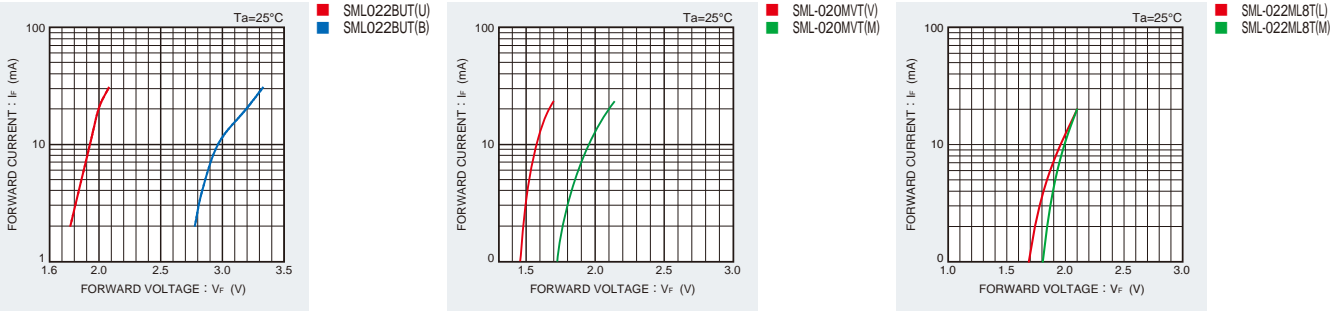


## Viewing Angle

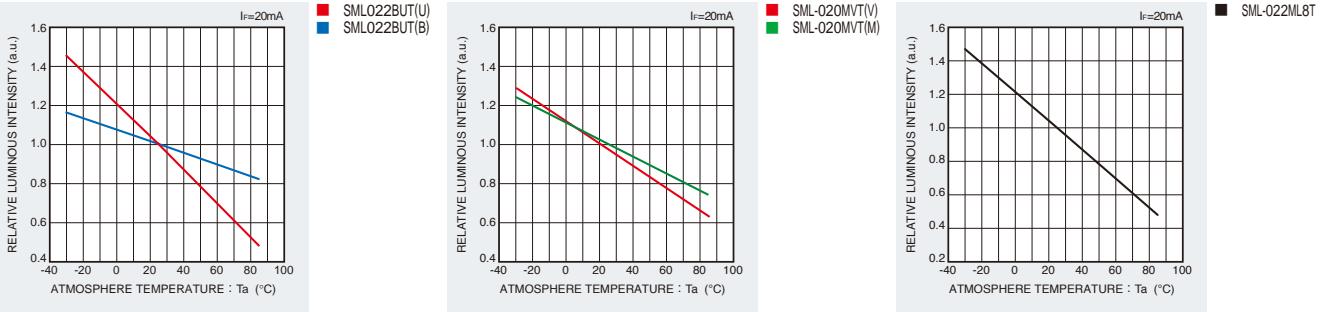


Electrical Characteristics Curves

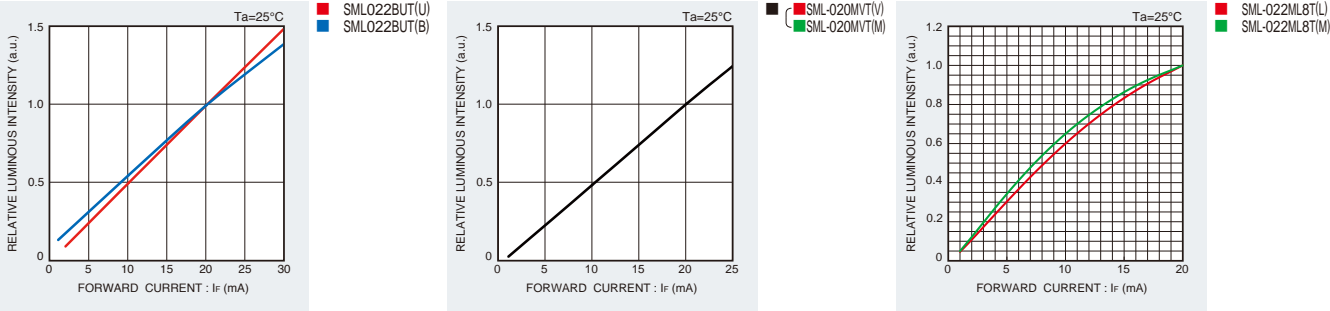
Forward Current-Forward Voltage



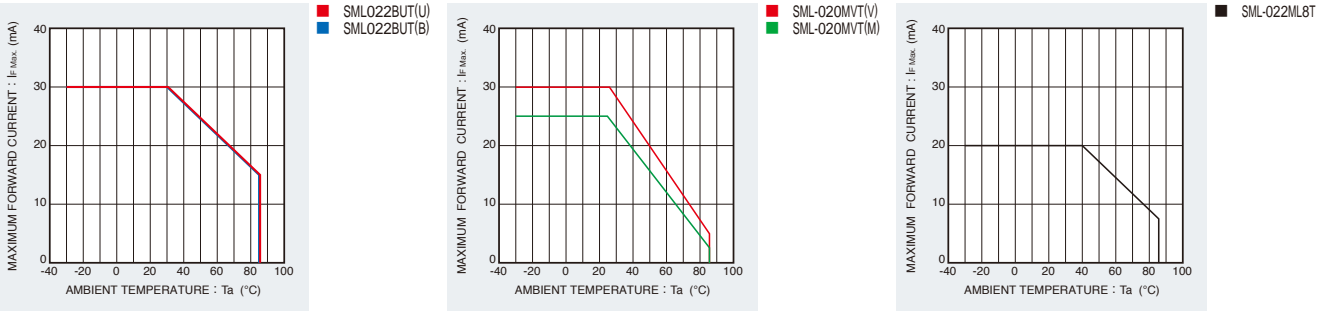
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



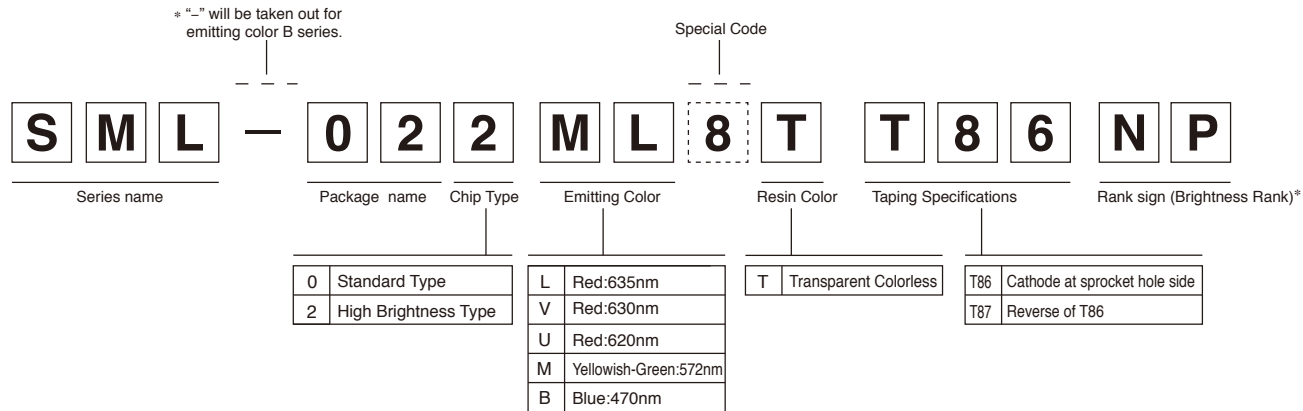
Rank Reference of Brightness

Dual Color

Dual Color				(Ta=25°C, If=20mA)											
Chip LEDs with Reflector	Package size (mm)	Height (mm)	Part No.	Luminous Intensity (mcd)	K	L	M	N	P	Q	R	S	T	U	
				Emitting Color	4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	90 to 140	140 to 220	220 to 360	
				Red											
				Blue											
				Red											
			SML022BUT	Blue											
			SML-020MVT <sup>®</sup>	Red											
				Green											
			SML-022ML8T	Red											
				Green											

※Brightness on specification sheet include tolerance of within ± 10%.

Part No. Construction



- \* Concerning the Brightness rank
- Please refer to the rank chart above for luminous intensity classification.
  - Part name is individual for each rank.
  - When shipped as sample, the part name will be a representative part name.
- General products are free of ranks. Please contact sales if rank appointment is needed.

Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags.  
Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request.  
Please contact the nearest sales office or distributor if necessary.

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