

# SML-02 Series

3025(1210)  
3.0×2.5mm(t=1.3mm)

### Features

•2-color type with reflector (standard)

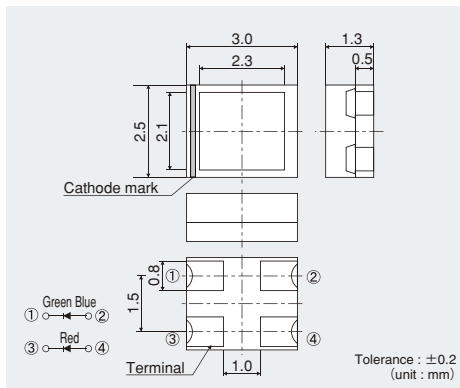


### Specifications

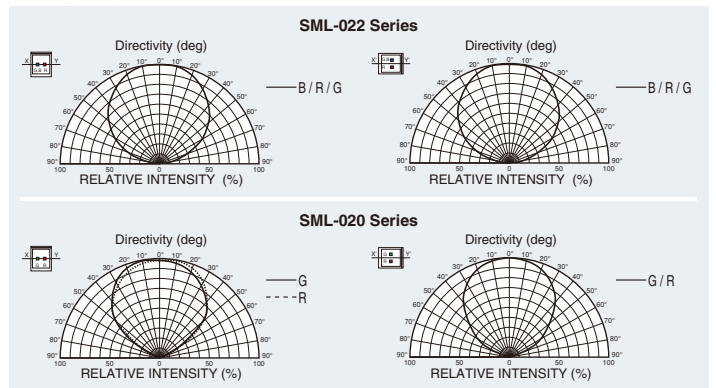
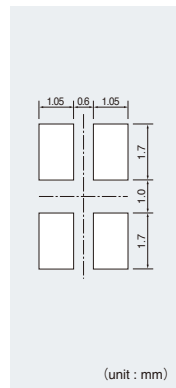
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ.(V)	IF(mA)	Reverse Current IR Max.(μA)	VR(V)	Dominant Wavelength λ D			Luminous Intensity Iv			
SML022BUT	InGaN on SiC	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	4	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			-40 to +100	2.1				569	572	575		16	40	
		Red												630	635		640	10	

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

### Dimensions

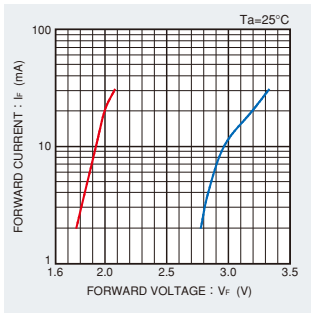


### Recommended Solder Pattern Viewing Angle

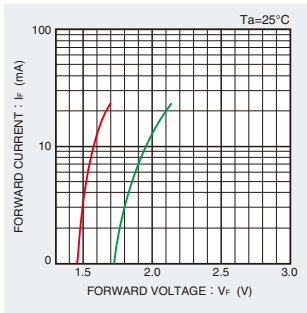


## Electrical Characteristics Curves

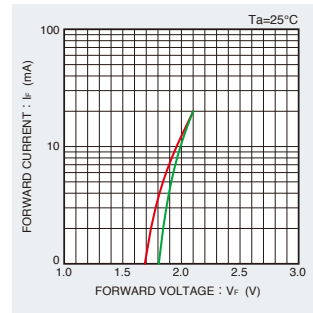
### Forward Current-Forward Voltage



■ SML022BUT(U)  
■ SML022BUT(B)

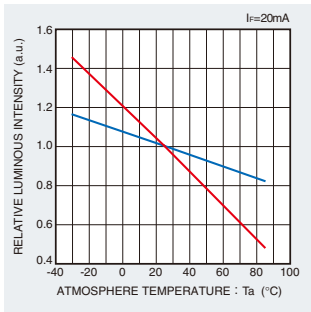


■ SML-020MVT(V)  
■ SML-020MVT(M)

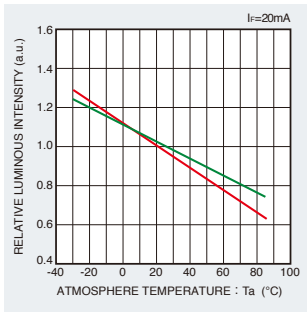


■ SML-022ML8T(L)  
■ SML-022ML8T(M)

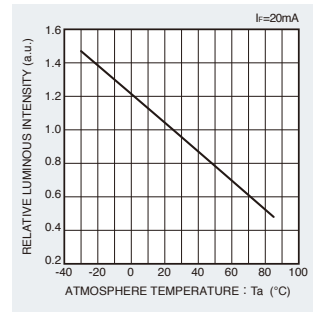
### Luminous Intensity-Atmosphere Temperature



■ SML022BUT(U)  
■ SML022BUT(B)

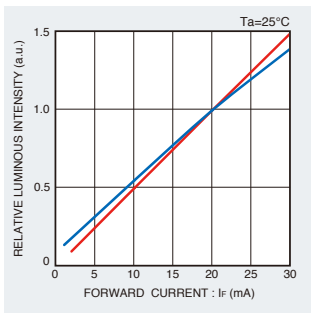


■ SML-020MVT(V)  
■ SML-020MVT(M)

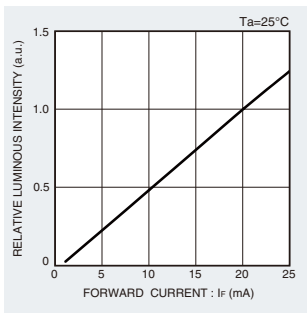


■ SML-022ML8T

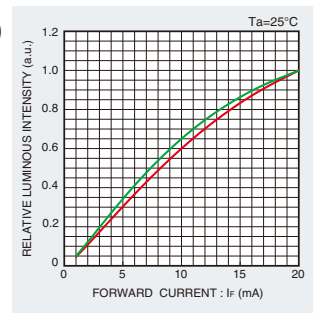
### Luminous Intensity-Forward Current



■ SML022BUT(U)  
■ SML022BUT(B)

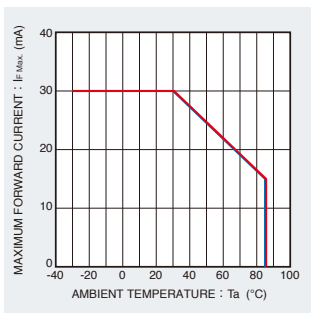


■ SML-020MVT(V)  
■ SML-020MVT(M)

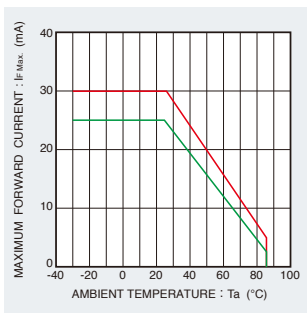


■ SML-022ML8T(L)  
■ SML-022ML8T(M)

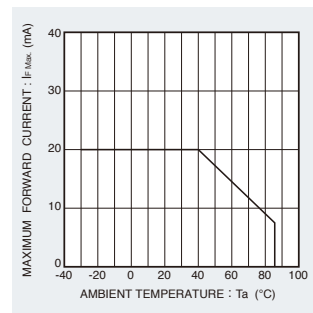
### Derating



■ SML022BUT(U)  
■ SML022BUT(B)



■ SML-020MVT(V)  
■ SML-020MVT(M)



■ SML-022ML8T

## Rank Reference of Brightness

### Dual Color

(Ta=25°C, If=20mA)

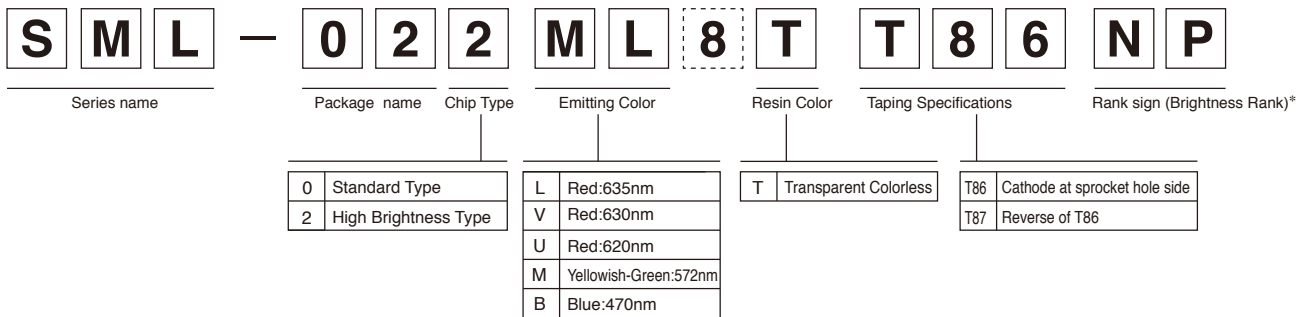
Emitting Color	Luminous Intensity (mcd)	K	L	M	N	P	Q	R	S	T	U
		4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	90 to 140	140 to 220	220 to 360
Red											
Blue											
Red		V									U
Green				M							
Red					L						
Green						M					

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

## Part No. Construction

\* "-" will be taken out for emitting color B series.

Special Code



- \* 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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