

Data Sheet



# SML-02 Series

3025(1210) 3.0×2.5mm(t=1.3mm)

#### **Features**

·2-color type with reflector (standard)





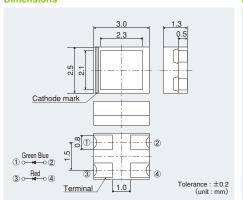




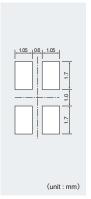
## **Specifications**

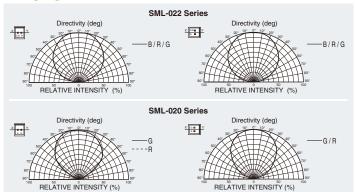
	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)							Electrical and Optical Characteristics (Ta=25°C)									
Part No.			Power Dissipation PD(mW)	Forward	Peak Forward Current IFP(mA)		Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)		Voltage VF IF(mA)	Reverse (	Current IR	Domin	ant Wa	veleng	th λD	Lumino	us Inte	nsity Iv IF(mA)
■■ SML022BUT	InGaN	Blue	120	30	80* <sup>2</sup>	5	/	-40 to +100	3.2		5	464	470	476		56	140		
	AlGaInP on GaAs	Red	75				-30 to +85		2			5	619	624	629		90	220	
■ SML-020MVT	GaAsP on GaAs	Green	60	25	60* <sup>1</sup>	4		-40 to +85	2.2	20 10	100		569	572	575	20	9	20	20
		Red	60						2	20	100	4	625	630	635	20	3.6	6.3	20
■ SML-022ML8T	AlGalnP	AlGaInP on GaAs Red	52	20	60* <sup>2</sup>			-40 to +100	2.1			4	569	572	575		16	40	
	on GaAs												630	635	640		10	20	

## **Dimensions**



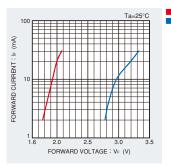
## Recommended Solder Pattern Viewing Angle

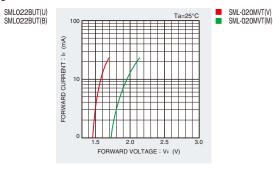


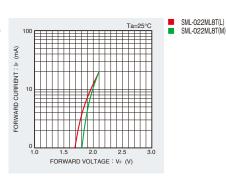


#### **Electrical Characteristics Curves**

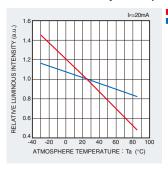
## Forward Current-Forward Voltage

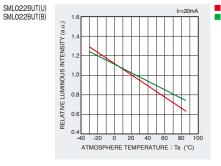


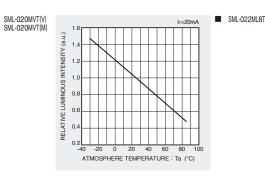




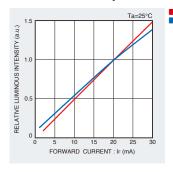
### Luminous Intensity-Atmosphere Temperature

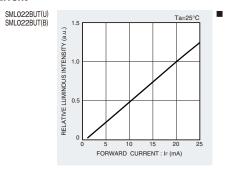


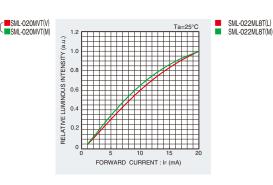




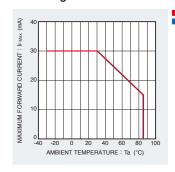
## Luminous Intensity-Forward Current

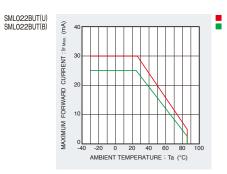


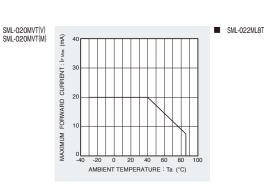




## Derating







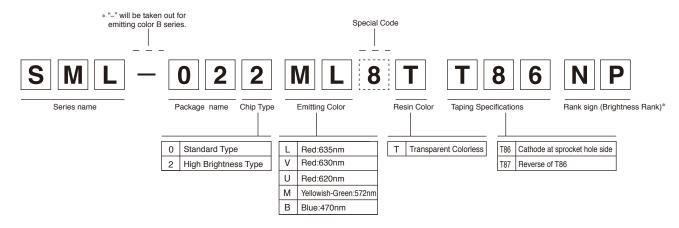
## **Rank Reference of Brightness**

## Dual Color

(Ta=25°C, I <sub>F</sub> =20mA)														
Package size (mm)	Package	age Height m) (mm)	Part No.	Luminous Intensity	K	L	М	N	Р	Q	R	S	Т	U
	(mm)				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
Chip LEDs with Reflector	3025		SML022BUT	Red									U	
				Blue							В			
			SML-020MVT*	Red	,	V								
				Green			M							
			SML-022ML8T	Red			L							
				Green				M						

 $\rm \divideontimes Brightness$  on specification sheet include tolerance of within  $\pm$  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 distributer if necessary.

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