

SML-02 Series

3025(1210) 3.0×2.5mm(t=1.3mm)

Features

·2-color type with reflector (standard)







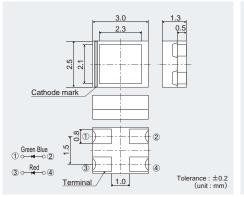


Specifications

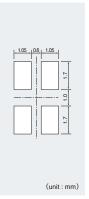
	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)							Electrical and Optical Characteristics (Ta=25°C)									
Part No.			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)		Voltage VF					NA *3	th λD IF(mA)	Lumino Min. (mcd)	Typ. (mcd)	nsity Iv IF(mA)
■■SML022BUT	InGaN	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	4	-30 to +85	-40 to +85	2.2	20 10	100		569	572	575	20	9	20	20
		Red							2		100	4	625	630	635	20	3.6	6.3	20
■ SML-022ML8T	AlGalnP	AlGaInP Green Red	52	20	60* ²			-40 to +100	2.1			4	569	572	575		16	40	
	on GaAs												630	635	640		10	20	

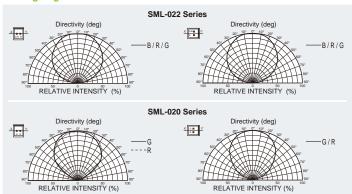
*1:Duty1/5, 200Hz *2:Duty1/10, 1kHz *3:Reference

Dimensions



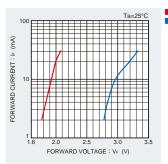
Recommended Solder Pattern Viewing Angle

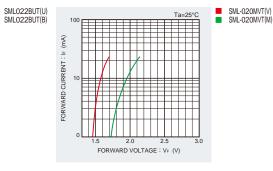


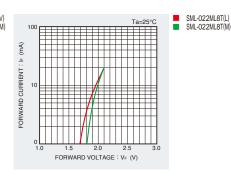


Electrical Characteristics Curves

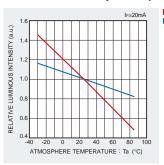
Forward Current-Forward Voltage

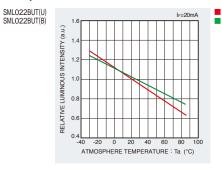


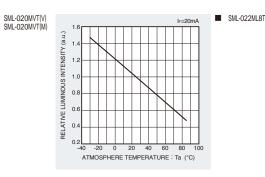




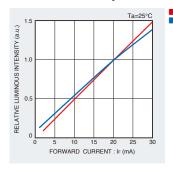
Luminous Intensity-Atmosphere Temperature

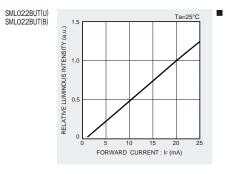


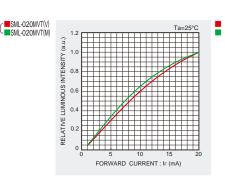




Luminous Intensity-Forward Current

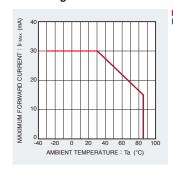


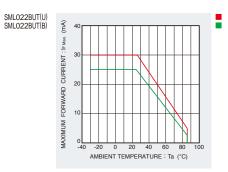


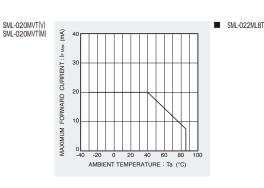


SML-022ML8T(L) SML-022ML8T(M)

Derating







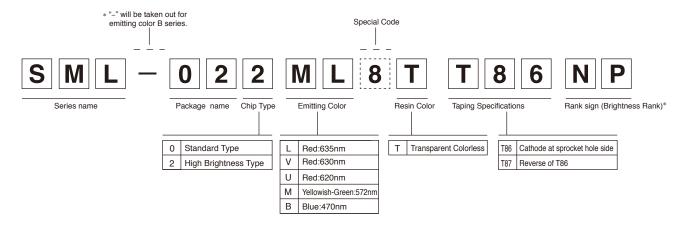
Rank Reference of Brightness

Dual Color

												(-	Га=25°С, I	F=20mA)
Packa size (mm	Package	Height	Part No.	Luminous	K	L	М	N	Р	Q	R	S	Т	U
	size (mm)	(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	,	/								
				Green			М							
			SML-022ML8T	Red			L							
				Green				M						

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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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