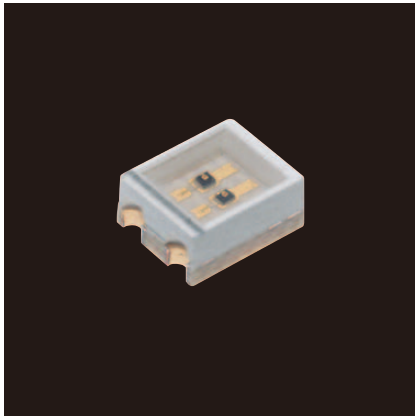




SML-02 Series

3025(1210)
 3.0×2.5mm(t=1.3mm)

Features

- 2-color type with reflector (standard)

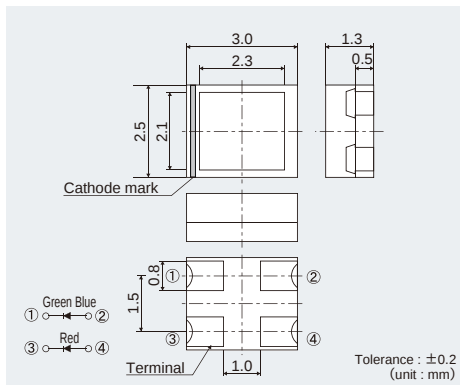
Color Type   

Specifications

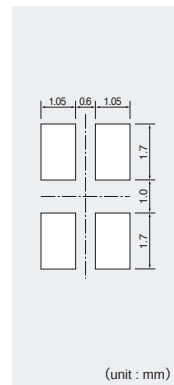
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf(Typ. (V))	Forward Current If(mA)	Reverse Current Ir(Max. (μA))	Reverse Voltage Vr(V)	Dominant Wavelength λD(nm)			Luminous Intensity Iv(mcd)		
 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	4	569	572	575	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

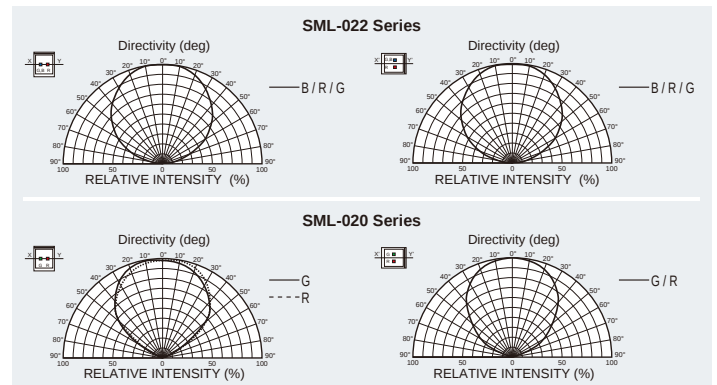
Dimensions



Recommended Solder Pattern

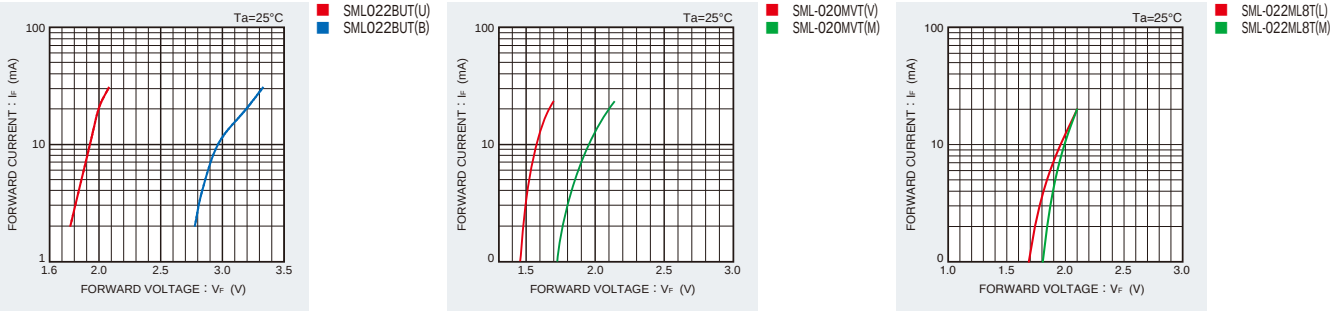


Viewing Angle

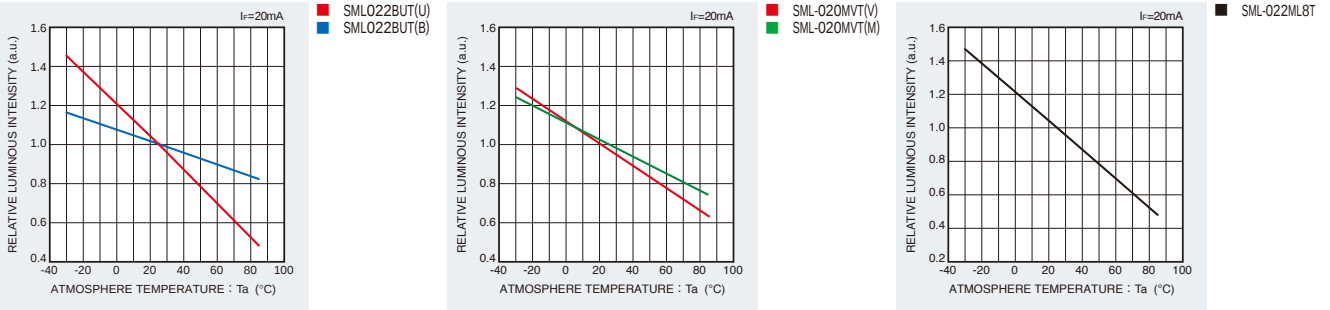


Electrical Characteristics Curves

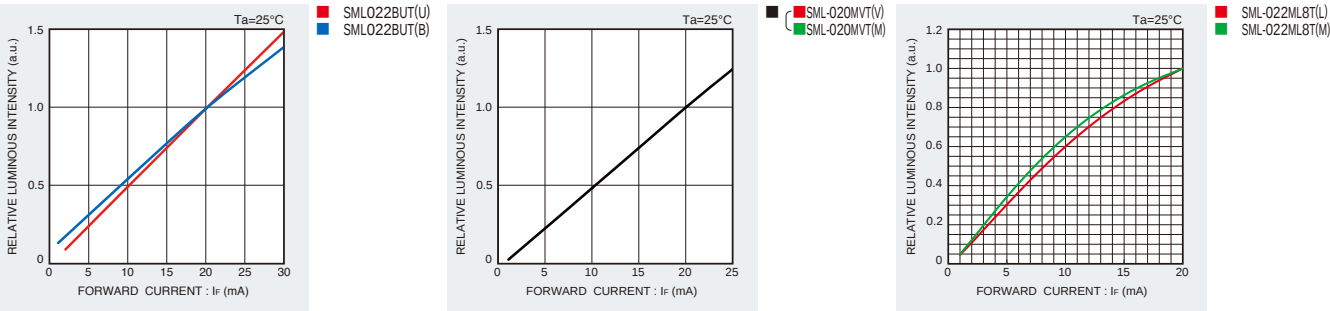
Forward Current-Forward Voltage



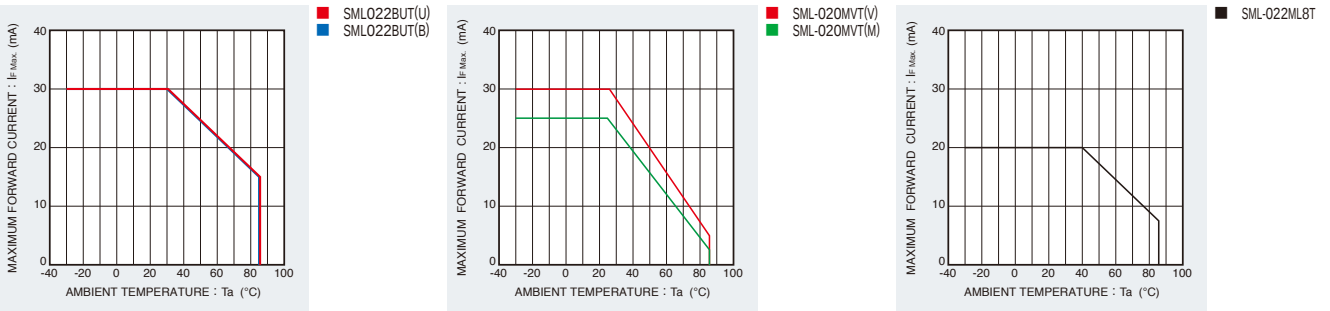
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



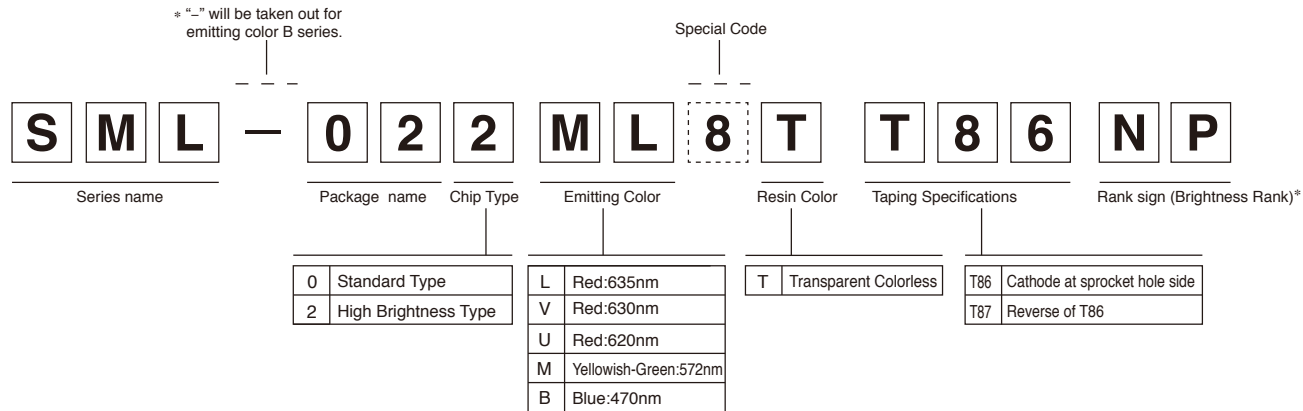
Rank Reference of Brightness

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						
					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						
				Emitted Color																
				Red																
				Blue																
SML022BUT	Red																			
	Blue																			
	Red																			
	Green																			
SML-020MVT®	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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