

SML-52 Series

1315(0605) 1.3×1.5 mm(t=0.6mm)

Features

- ·2-color type LED
- · Abundant 2 color variations









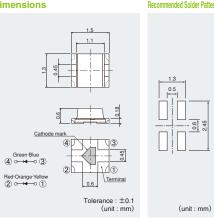


Specifications

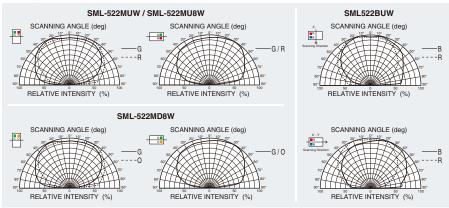
				Abso	lute Maxim	um Ratings	s (Ta=25℃)		Electrical and Optical Characteristics (Ta=25°C) Forward Voltage VF Reverse Current In Dominant Wavelength λD Luminous Intensi										
Part No.	Chip Structure	Emitting Color	Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)					Domin Min.* ³ (nm)		3ء ما				nsity Iv
- OM 500DUM	InGaN	Blue	66	20	60	5	40.405	40.4400	2.9	5	10	5	465	470	475	5	9.0	22	5
SML522BUW	AlGaInP on GaAs	Red	50	20	60*2	5	-40 to +85	-40 to +100	1.9	5	10	5	619	624	629	5	Luminous Inter Min. Typ. (mcd) (mcd)	5	
SML-522MUW		Yellowish Green			60*1		-30 to +85	-40 to +85	2.1				569	572	575		14	40	
SIVIL-522IVIOVV	AlGaInP	Red	50	20					1.9				615	620	625		22	63	
SML-522MU8V	on GaAs	Green	52		00			40 to . 100	2.2		100		569	572	575		16	40	
SIVIL-522IVIU6W		Red	52		60*2	4	-30 to +85	-40 to +100	2.2		100		615	620	625		25	63 40 63 16 63	
SML-521MUW	AlGaInP on GaAs	Yellowish Green	70	25	60*1			-40 to +85	2.2				569	572	575		5.6	16	
SIVIL-52 I IVIU VV	Gap	Red	50	20	6U*1			-40 (0 +85	1.9	20		4	615	620	625	20	10 21 14 40 22 63 16 40 25 63 5.6 16 22 63 10 18 40 63 5.6 16 22 63	20	
SML-522MD8W	AlGaInP	Green	52	20	100*2	5	-40 to +85	-40 to +100	2.1	20	10	4	569	572	575	20	10	18	20
SIVIL-522IVID6W	on GaAs	Orange		20					2.1		10		602	605	608		40	63	
CMI FOIMDW	AlGalnP	Yellowish Green	70	25				2.2				569	572	575		5.6	16		
SML-521MDW		Orange	50	20	60	4	22. 25	40.405	1.9		100		602	605	608		22	63	
SML-521MYW	on GaAs Gap	Yellowish 70 25	60*1	4	-30 to +85	-40 to +85	2.2		100		569	572	575		5.6	16			
		Yellow	50	20					1.9				584	587	590		22	63	

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

Dimensions

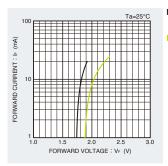


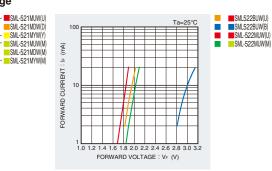
Recommended Solder Pattern Viewing Angle

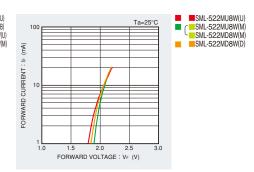


Electrical Characteristics Curves

Forward Current-Forward Voltage





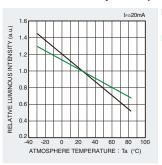


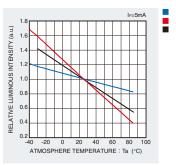
Luminous Intensity-Atmosphere Temperature

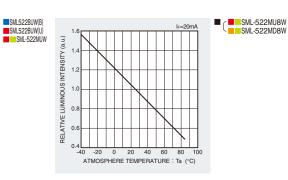
SMI -521MUW(U)

SML-521MDW(D SML-521MYW(Y)

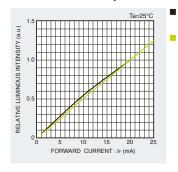
SML-521MUW(M) SML-521MDW(M) SML-521MYW(M)

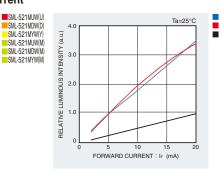


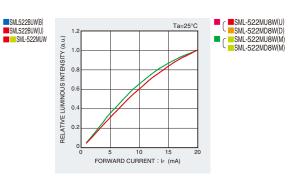




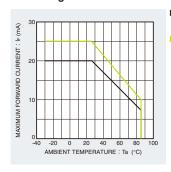
Luminous Intensity-Forward Current

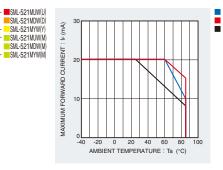


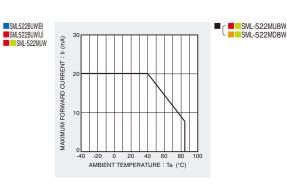




Derating







Rank Reference of Brightness

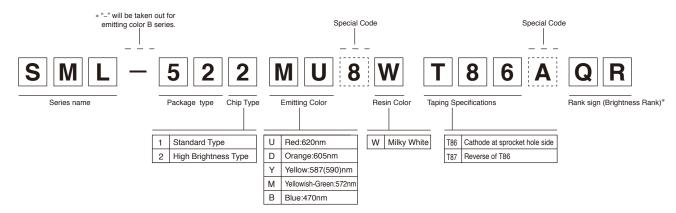
Dual Color

- Duai C	olor											(Га=25°С, I	F=20mA)
	Package	Height		Luminous Intensity (mcd)	K	L	М	N	Р	Q	R	S	T	U
	Package size (mm)	(mm)	Part No.	Emitting Color (mcd)	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
	1315		SML-522MUW*	Red					U					
				Yellowish Green					M					
			SML-522MU8W	Red						U				
				Green					M					
		0.6	SML-521MUW*	Red						U				
Mini-mold			SIVIL-32 TIVIOVV	Yellowish Green			M							
Chip LEDs			SML-521MDW*	Orange						D				
				Yellowish Green			M							
			SML-522MD8W	Orange							D			
			SIVIL-322IVID8VV	Green				M						
			SML-521MYW*	Yellow						Υ				
			SIVIL-52 TIVIY VV	Yellowish Green			M							

														(Ta=25°C,	I _F =5mA)
ı		Package	Height		Luminous	K	L	М	N	Р	Q	R	S	Т	U
		Package size (mm)	nm) (mm)	Part No.	Emitting Color (mcd)	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
- [Mini-mold	1315	0.6	SML522BUW	Red				U						
-[Chip LEDs	1315 0.6		SIVILSZZBUVV	Blue			В							

 $\mbox{\ensuremath{\%}}\mbox{\ensuremath{Brightness}}$ 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.

Notes

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