

SML-52 Series

1315(0605) 1.3×1.5 mm(t=0.6mm)

Features

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









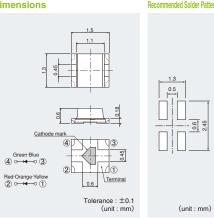


Specifications

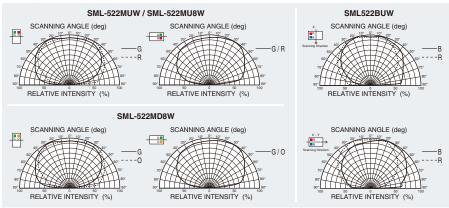
				Abso	Electrical and Optical Characteristics (Ta=25°C)														
Part No.	Chip Structure	Emitting Color	Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)					Domin Min.* ³ (nm)		3ء ما				IF(mA
SML522BUW	InGaN	Blue	66	20	00	-	40.405	40.1 400	2.9	5	10	_	465	470	475	5	9.0	22	5
SWIL522BUW	AlGaInP on GaAs	Red	50	20	60*2	5	-40 to +85	-40 to +100	1.9	5	10	5	619	624	629	5	10	Typ.	5
SMI -ESSMIIW		Yellowish Green	52		60*1			-40 to +85	2.1				569	572	575		14	40	
SML-522MUW	AlGaInP	Red	50	20					1.9				615	620	625		22	63	
■ SML-522MU8V	on GaAs	Green		60*2	4	-30 to +85	-40 to +100	2.2		100		569	572	575		16	40		
SWL-522WU6W		Red	52		6U*2	4	-30 10 +85	-40 10 +100	2.2		100		615	620	625		9.0 22 10 21 14 40 22 63 16 40 25 63 5.6 16 22 63 10 18 40 63 5.6 16 22 63 5.6 16		
SML-521MUW	AlGaInP on GaAs	Yellowish Green	70	25	5 60*1			-40 to +85	2.2				569	572	575		5.6	16	
SIVIL-52 TIVIU VV	Gap	Red	50	20	0U*1			-40 (0 +85	1.9	20		4	615	620	625	20	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
SWL-522WD6W	on GaAs	Orange		20					2.1		10		602	605	608		40	63	
EMI FOIMDW		Yellowish Green	70	25			-30 to +85		2.2				569	572	575		5.6	16	
SML-521MDW		Orange	50		60	4		-40 to +85	1.9		100		602	605	608		22	63	
SML-521MYW	on GaAs Gap	Yellowish Green	70	25	60*1				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

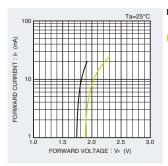


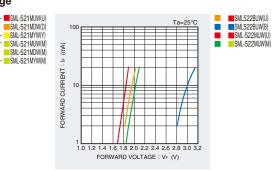
Recommended Solder Pattern Viewing Angle

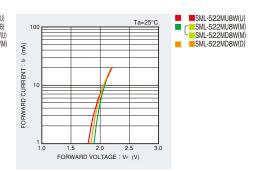


Electrical Characteristics Curves

Forward Current-Forward Voltage





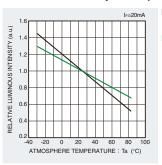


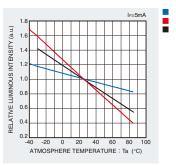
Luminous Intensity-Atmosphere Temperature

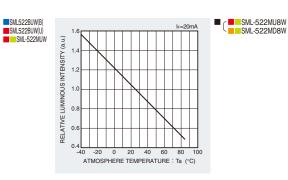
SMI -521MUW(U)

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

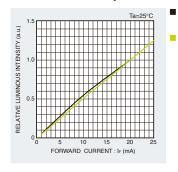
SML-521MUW(M) SML-521MDW(M) SML-521MYW(M)

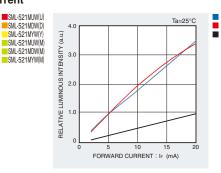


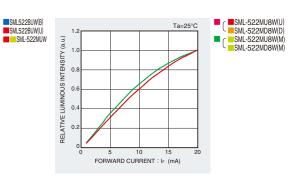




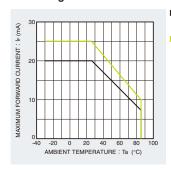
Luminous Intensity-Forward Current

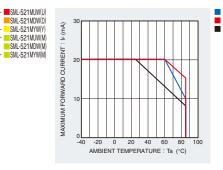


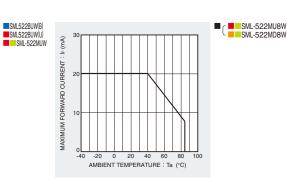




Derating







Rank Reference of Brightness

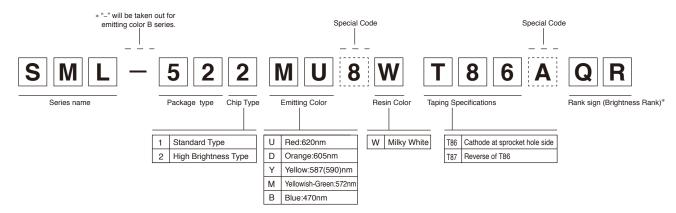
Dual Color

Duai C	olor											(Га=25°С, I	l=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				Yellowish Green			M							
Chip LEDs			SML-521MDW*	Orange						D				
				Yellowish Green			M							
			SML-522MD8W	Orange							D			
				Green				M						
			SML-521MYW*	Yellow						Υ				
			SIVIL-52 IIVI Y VV	Yellowish Green			M							

														(Ta=25°C	IF=5mA)
ı		Package	Height		Luminous	K	L	М	N	Р	Q	R	S	Т	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
- [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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