

SMLV56 Series

SRGB2

3528(1411) 3.5×2.8mm(t=0.6mm)

- ·High Brightness Tri-Color LEDs
- ·Low height and improved color mixture made possible by flat frame structure.





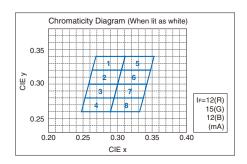
Product Specifications

	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)		Storage Temperature Tstg(°C)	Forward \	Voltage VF IF(mA)	Max.	VR(V)	Domin Min.*1	ant Wa	May *1	th λD		Тур.	
	410 1 0		FD(IIIVV)	IF(IIIA)	IFF(IIIA)	Vn(V)	Topi(C)	TSig(C)	(V)	' '	(μA)	()	(mm)	(nm)	(mm)	(/	(mca)	(mca)	, ,
	AlGaInP on Si	Red		50					2.1		10	5	619	624	629		450	700	
■SMLV56RGB1W	InGaN	Green	400	40	100	5	-40 to +85	-40 to +100	3.3	20			520	527	535	20	710	1200	20
	mgan	Blue		40	40				3.3			-	465	470	475		220	400	

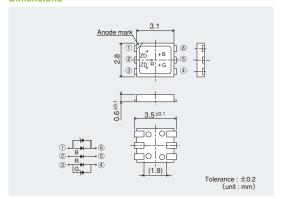
*1=Reference

Chromaticity Coordinates

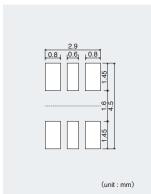
Electrical and Optical Characteristics (Ta=25°C)											
Chromaticity Coord	Luminous intensity Iv										
(x, y)	IF(mA)	Min. (mcd)	Typ. (mcd)	IF(mA)							
	(R)12			(R)12							
(0.30, 0.30)	(G)15	1100	1700	(G)15							
	(B)12			(B)12							

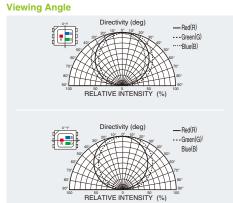


Dimensions



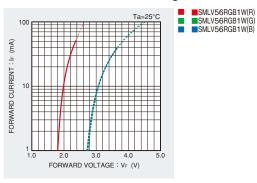
Recommended Solder Pattern



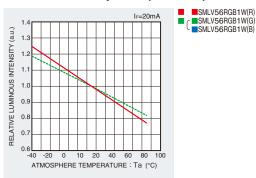


Electrical Characteristics Curves

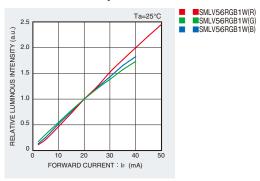
Forward Current-Forward Voltage



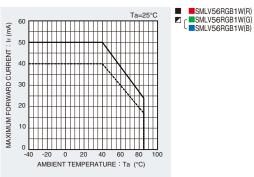
■ Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



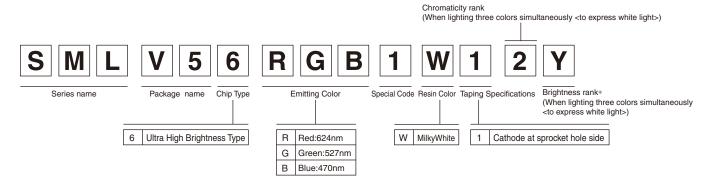
Rank Reference of Brightness

SMLV56RGB1W

SINIL V 30 GB I W															
	Package Size (mm)	Height	Luminous	γ*											
		(mm)		220 to 280	280 to 360	355 to 460	450 to 560	560 to 710	710 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200		
	3528		Red					F	7						
Chip LEDs		0.6	Green								3				
with Reflector	3528	0.6	0.6	Blue		-	3								
Tioncolor					White									WB	

^{*}When lighting three colors simultaneously <to express white light>

Part No. Construction



- * Concerning the Brightness rank
 Please refer to the rank chart above for luminous intensity classification.
- Please refer to the Chromaticity diagram for color 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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Examples of application circuits, circuit constants and any other information contained herein illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.

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