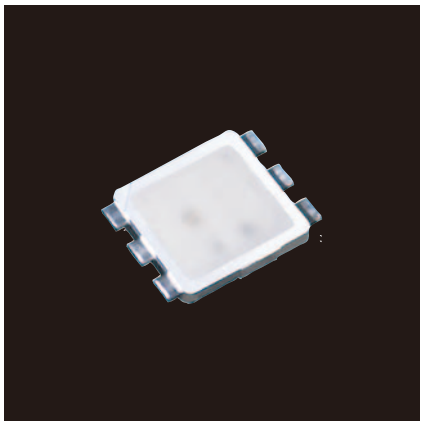


SMLV56 Series

SRGB2

3528(1411)
3.5×2.8mm(t=0.6mm)

Features

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

Color Type

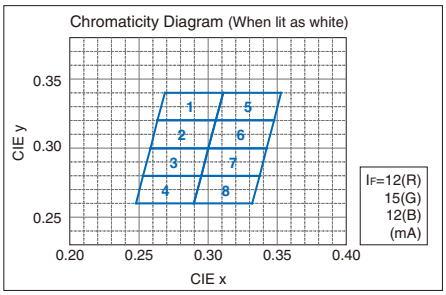
Product Specifications

Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)										
			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λD			Luminous Intensity Iv			
									Typ. (V)	IF(mA)	Max. (μA)	VR(V)	Min.*1 (nm)	Typ. (nm)	Max.*1 (nm)	IF(mA)	Min. (mcd)	Typ. (mcd)	IF(mA)
■	AlGaInP on Si	Red	400	50	100	5	-40 to +85	-40 to +100	2.1	20	10	5	619	624	629	20	450	700	20
■ **SMLV56RGB1W**	InGaN	Green		40					3.3		-	-	520	527	535		710	1200	
■		Blue											465	470	475		220	400	

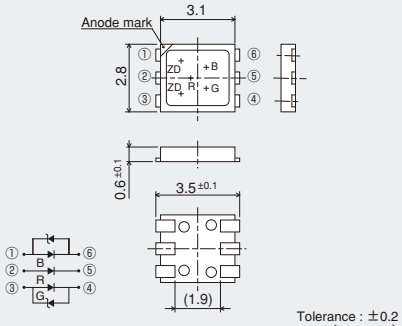
*1=Reference

Chromaticity Coordinates

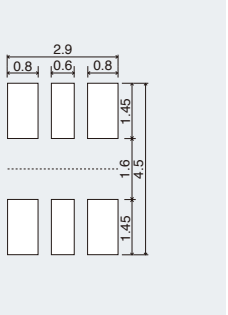
Electrical and Optical Characteristics (Ta=25℃)				
Chromaticity Coordinates (x, y)	IF(mA)	Luminous intensity Iv Min. (mcd)	Typ. (mcd)	IF(mA)
	(R)12			(R)12
(0.30, 0.30)	(G)15	1100	1700	(G)15
	(B)12			(B)12



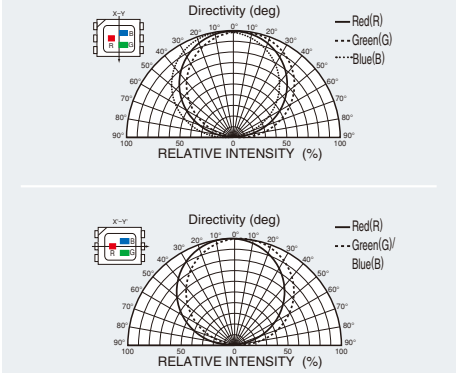
Dimensions



Recommended Solder Pattern



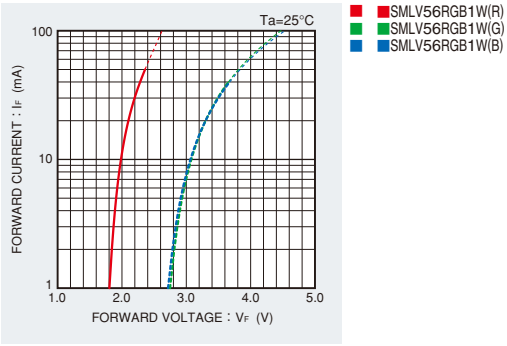
Viewing Angle



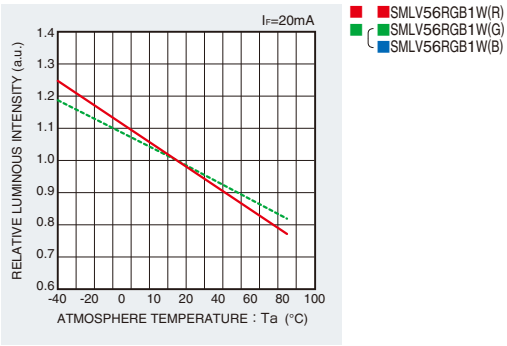
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Electrical Characteristics Curves

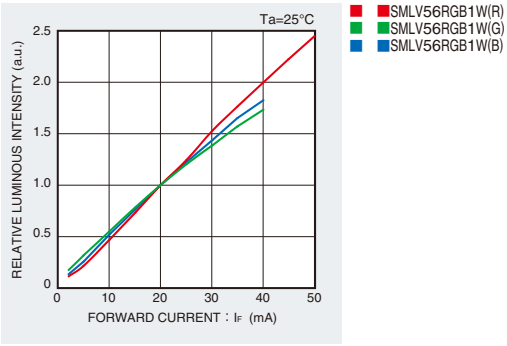
Forward Current-Forward Voltage



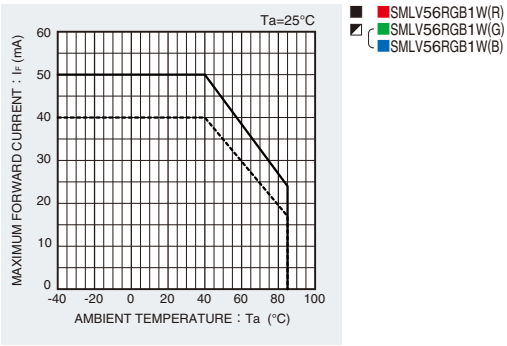
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



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Rank Reference of Brightness

SMLV56RGB1W

(Ta=25°C, IF=20mA)

	Package size (mm)	Height (mm)	Luminous Intensity (mcd) / Emitting Color	Y*									
				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
Chip LEDs with Reflector	3528	0.6	Red				R						
			Green						G				
			Blue	B									
			White								WB		

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

Part No. Construction

Chromaticity rank
(When lighting three colors simultaneously <to express white light>)

S	M	L	V	5	6	R	G	B	1	W	1	2	Y

Series name | Package name | Chip Type | Emitting Color | Special Code | Resin Color | Taping Specifications | Brightness rank* (When lighting three colors simultaneously <to express white light>)

6	Ultra High Brightness Type

R	Red:624nm
G	Green:527nm
B	Blue:470nm

W	MilkyWhite

1	Cathode at sprocket hole side

* 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.

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