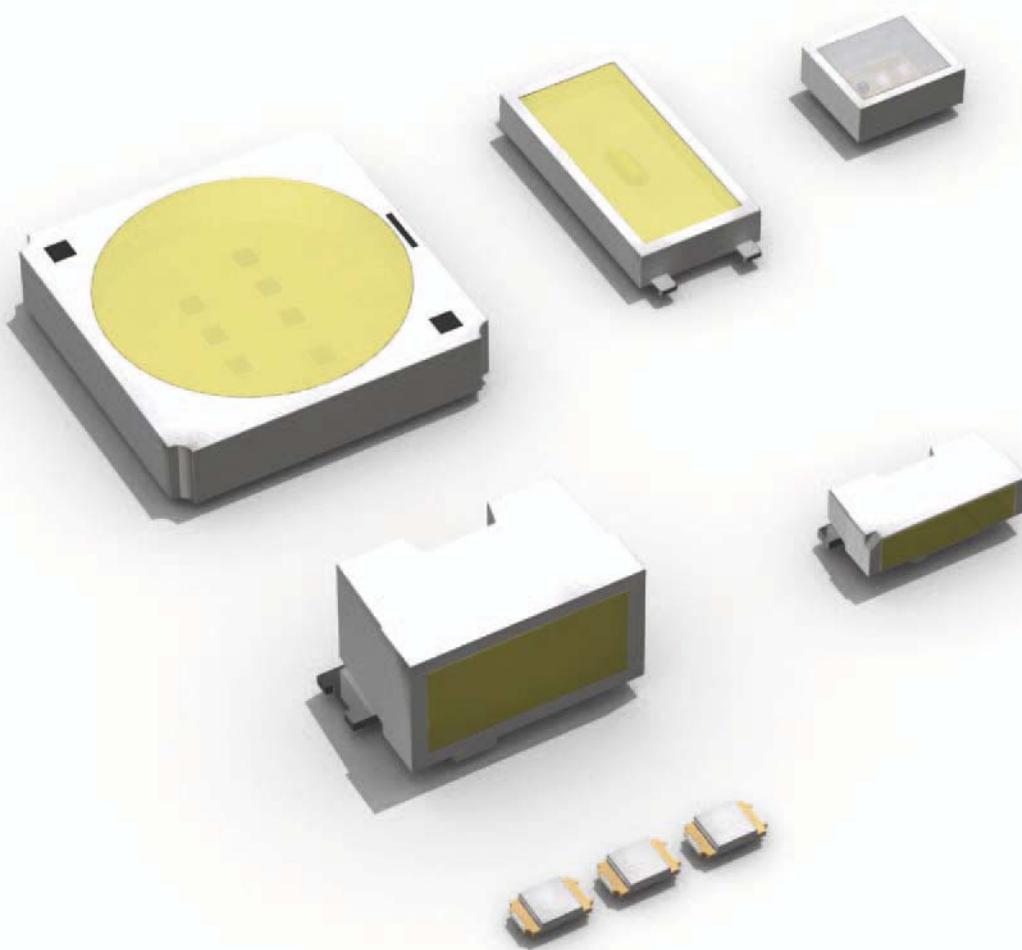




2012

New Products Catalog

Opto Electronics



LED New Products

LED New Products

ROHM Co., Ltd.

Contents

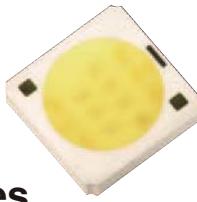
〈SSML Series〉	PSL01 series.....	2
〈PSML Series〉	SMLK□ series.....	4
〈PSML3 Series〉	PSL02 series.....	6
〈PICOLED™-RGB Series〉	SMLP3 series / MSL02 series.....	8
〈GC-RGB Series〉	MSL0301 / MSL0401RGB.....	10
〈SRGB-Black〉	SMLV36RGB1B.....	11
〈SRGB-S Series〉	MSL01 series.....	12
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	SLI-565 series.....	15

PICOLED™ is ROHM's pending trademark. EXCELED™ is ROHM's pending trademark.

SSML Series

High Heat Resistance
High Power White LEDs

PSL0101 series / PSL0102 series

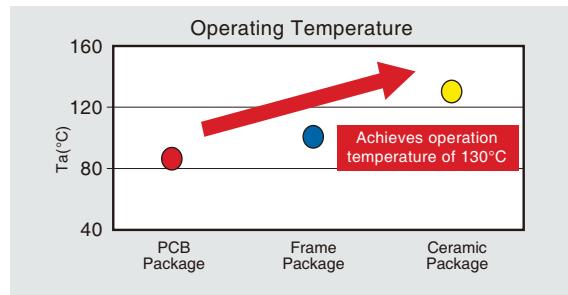


Color Type WB

High Reliability

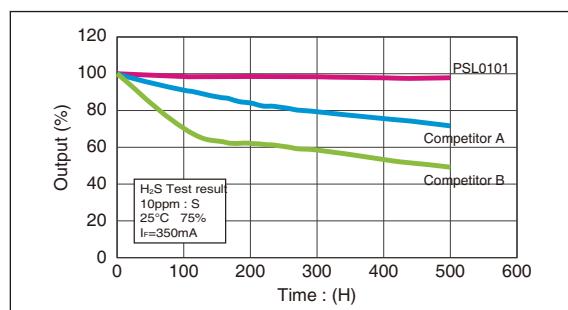
Achieves operation temperature of 130°C

A high thermal resistance material is used to ensure stable performance at high ambient temperatures.



High reliability product from the harsh environment of Out-side Lighting

The product is made of Au plating with Ceramic package, non Sulfur influence and keeping Luminous intensity.



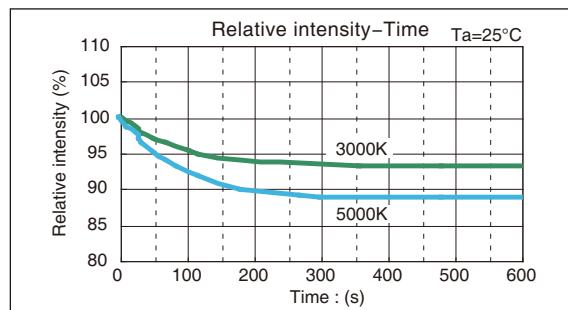
High Heat radiation

High Power 1W white LED

High efficiency is maintained (105 lm/W), even during continuous, large-current operation (350mA).

This product is keeping output intensity from high current condition due to our original packaging technology.

Keeping Luminous intensity less than approximately 10% after 300s turn-on.



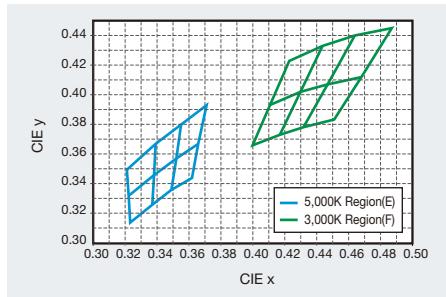
Specifications

Under Development

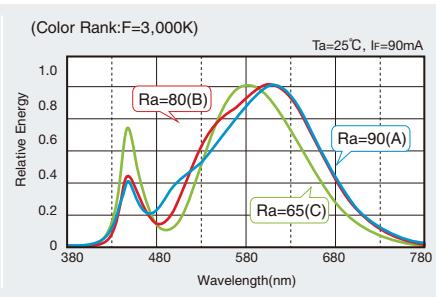
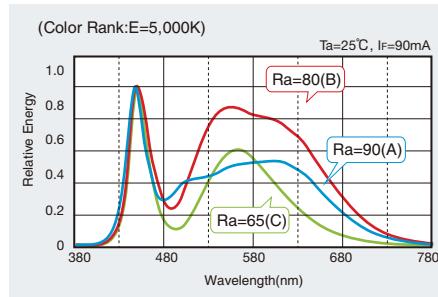
Part No.	Chip Structure	Emitted Color	Average Color Rendering Index (Ra)	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics(Ta=25°C)				
				Power Dissipation Pb(W)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Typ.(V)	Voltage VF	Chromaticity Coordinates (x, y)	If(mA)	Luminous Flux φV
□PSL0101WB EA	InGaN	White (5,000K)	65	1.95	500 ^{*1}	1,000 ^{*2}	-40 to +130	-40 to +130	3.3	350	(0.345, 0.352)	350	95
□PSL0101WB EB			80										85
□PSL0101WB EC			90										70
□PSL0101WB ED			75										95
□PSL0101WB FA		White (3,000K)	65										90
□PSL0101WB FB			80										80
□PSL0101WB FC			90										65
□PSL0101WB FD			74										85
□PSL0102WB EA	InGaN	White (5,000K)	65	0.78	200 ^{*1}	400 ^{*2}	-40 to +130	-40 to +130	3.3	120	(0.345, 0.352)	120	44
□PSL0102WB EB			80										38
□PSL0102WB EC			90										30
□PSL0102WB ED			75										42

*1:Mounting conditions must be carefully considered. *2:Duty ≤ 1/10, pulse width 10ms Max

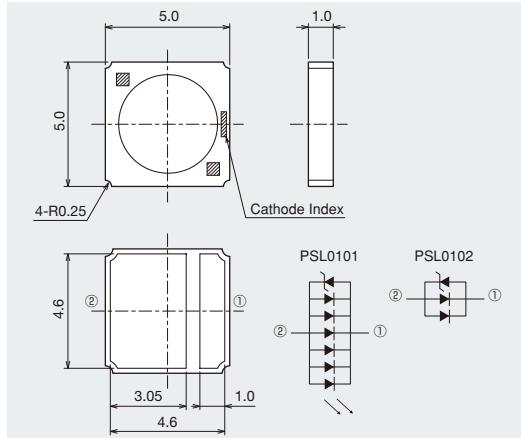
Chromaticity Diagram



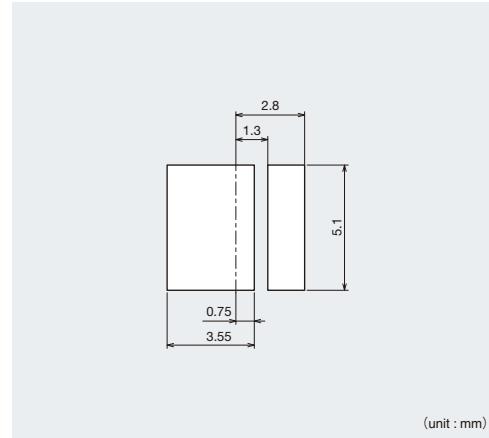
Spectrum Data



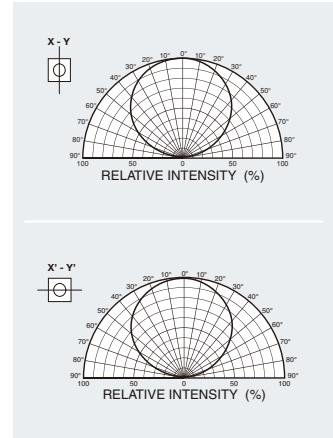
Dimensions



Recommended Solder Pattern

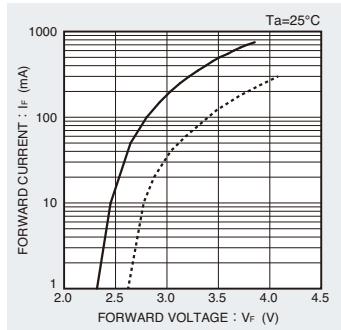


Viewing Angle



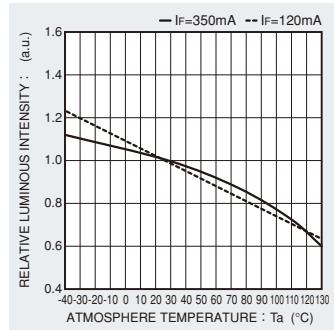
Electrical Characteristics Curves

Forward Voltage - Forward Current



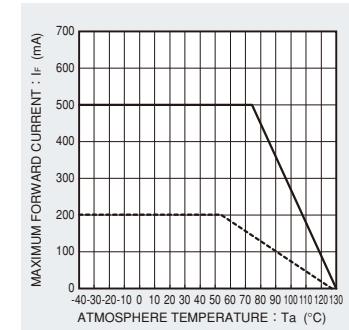
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD
- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

Atmosphere Temperature - Relative Luminous Intensity



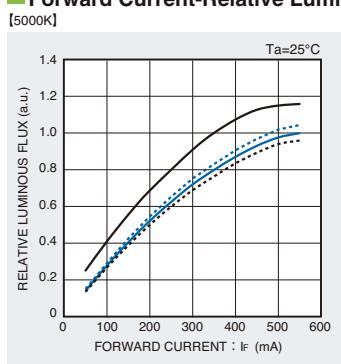
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD
- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

Derating



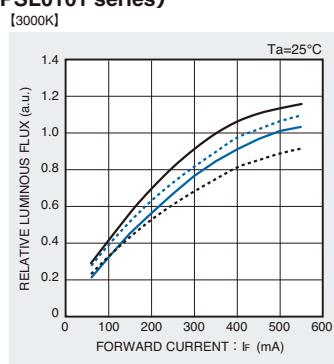
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

Forward Current-Relative Luminous Flux(PSL0101 series)



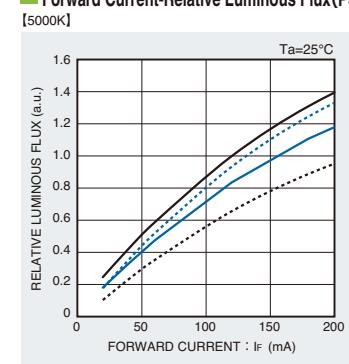
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED

Forward Current-Relative Luminous Flux(PSL0102 series)



- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

Forward Current-Relative Luminous Flux(PSL0102 series)

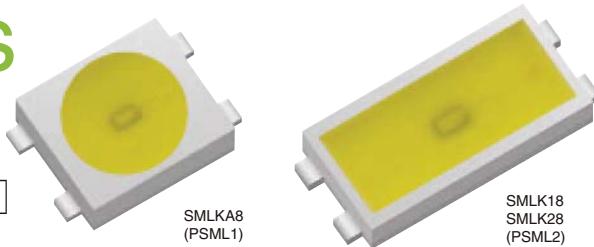


- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

PSML Series

High Luminous Intensity,
High Heat Dissipation LEDs

SMLKA□ / SMLK1□ / SMLK2□



Color Type
WB

Flat-frame high heat dissipation package

ROHM utilizes a Cu frame package featuring high heat conductivity, with exposed backside for improved thermal dissipation. As a result, thermal resistance is increased by 25%, enabling high current flow and greater luminosity.

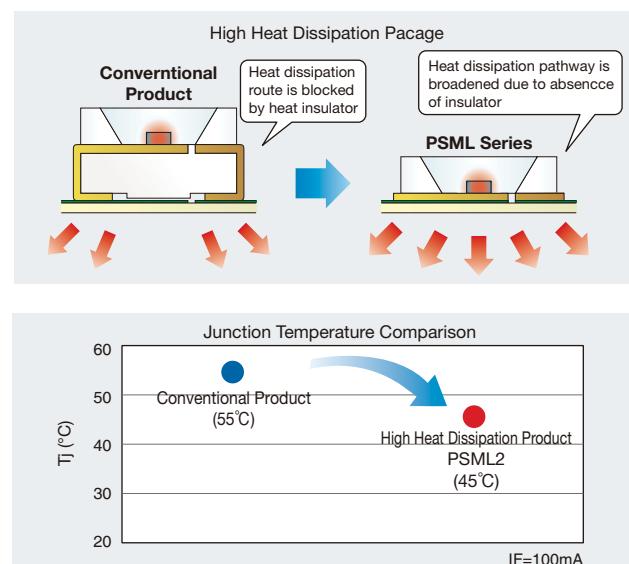
Advantages of High Heat Dissipation

- Reduced temperature dependency (deterioration in luminous intensity and color)
- Longer life
- Higher operating temperature range
- Excellent derating characteristics

Industry-leading brightness

Superior heat dissipation characteristics ensure high brightness, even in the medium current range (50-150mA).

(45) Lower junction temperatures result in excellent derating characteristics, extending the operating temperature range. High reliability is also ensured.



SMLKA8(PSML1)

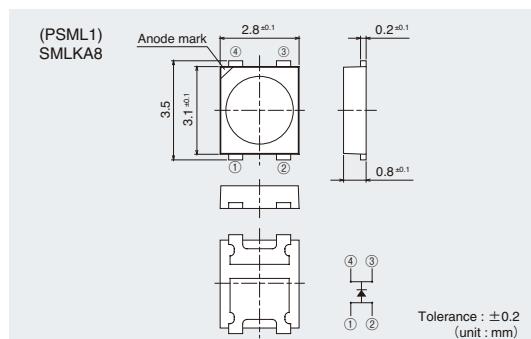
Specifications

Under Development

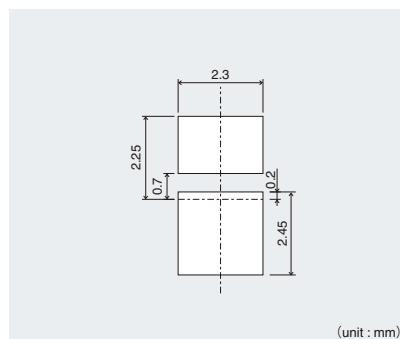
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta = 25°C)						Electrical and Optical Characteristics (Ta = 25°C)							
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage VR(V)	Operating Temperature Top(C)	Storage Temperature Tstg(C)	Forward Voltage VF Typ.(V)	Reverse Current Ir Max.(μA)	Vr(V)	Chromaticity Coordinates (x, y)	Luminous Intensity Iv If(mA)	Typ. Min. (cd)	Luminous Flux φv If(mA)	
□SMLKA8WBWCW	InGaN	White	675	150 ^{*1}	230 ^{*2}	5	-40 to +100	-40 to +100	3.9	90	10	(0.30, 0.28)	90	4.0	5.9	90 (20) 90

* 1: Mounting conditions must be carefully considered * 2: Duty $\leq 1/10$, 10ms

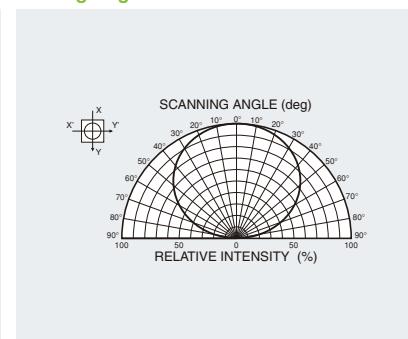
Dimensions



Recommended Solder Pattern

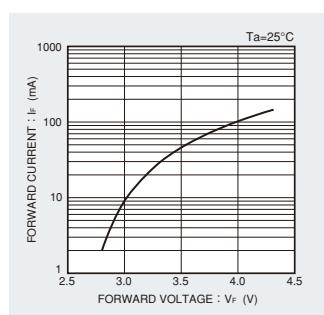


Viewing Angle

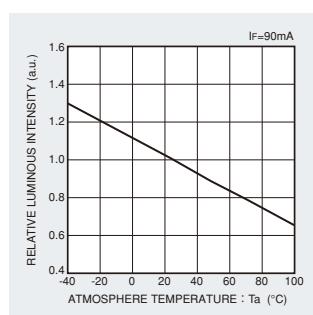


Electrical Characteristics Curves

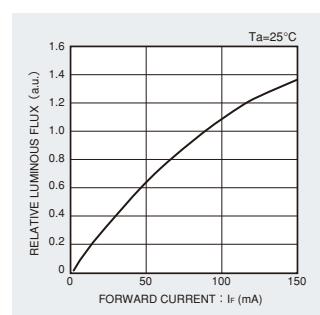
Forward Voltage-Forward Current



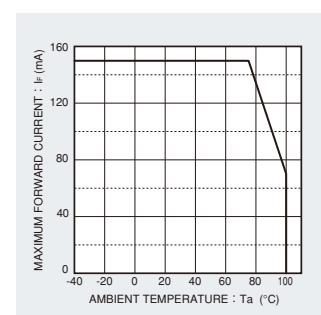
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



SMLK18/SMLK28(PSML2)

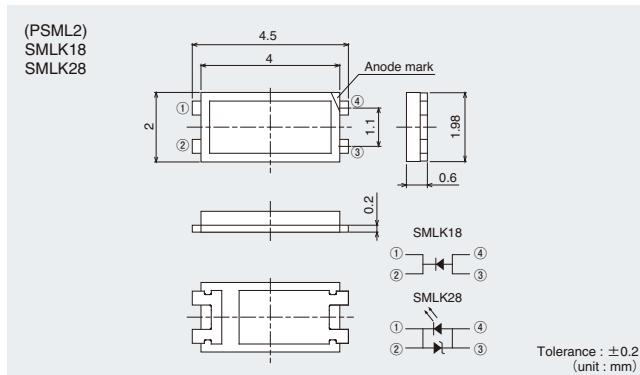
Specifications

Under Development

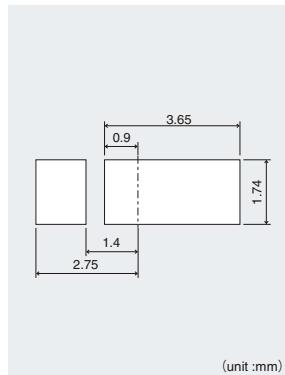
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)							
			Power Dissipation PD(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ.(V)	Forward Current If(mA)	Reverse Current Ir Max. (μA)	Reverse Voltage VR(V)	Chromaticity Coordinates (x, y)	Luminous Intensity Iv Min. (cd)	Luminous Intensity Iv Typ. (cd)	Luminous Flux Φv Typ. (lm)
□SMLK18WBJAW	InGaN	White (5000K)											(0.345, 0.351)		4.8	(17)
□SMLK18WBJBW		White (3000K)											(0.44, 0.40)	3.3	4.5	(16)
□SMLK18WBJCW			675	150	230*	5	-40 to +100	-40 to +100	3.9	90	10	5	(0.30, 0.28)	90	5.9	90 (21) 90
□SMLK18WBJDW		White											(0.34, 0.34)	4.8	6.0	(22)
□SMLK28WBJCW						-					-	-	(0.30, 0.28)		5.9	(21)

* Duty1/10≤10ms () : Reference

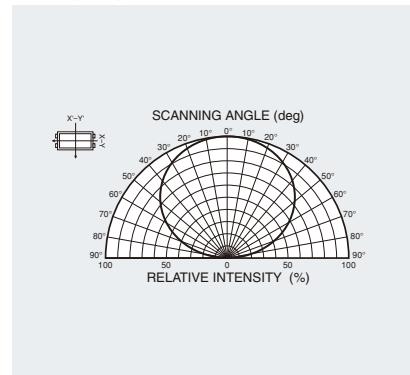
Dimensions



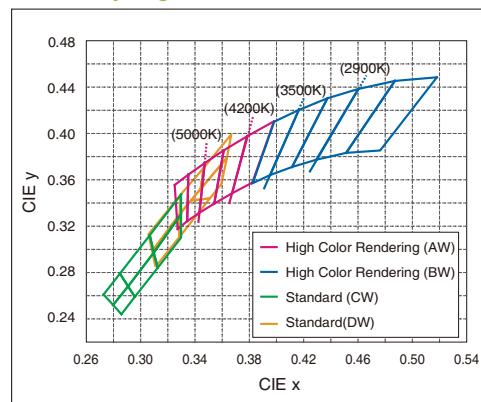
Recommended Solder Pattern



Viewing Angle

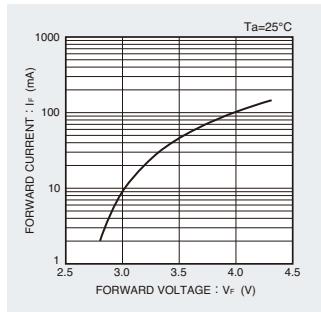


Chromaticity Diagram

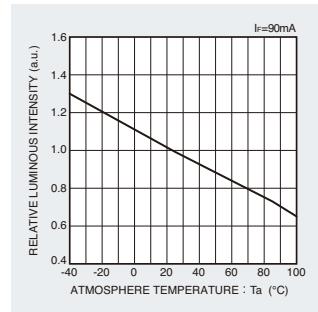


Electrical Characteristics Curves

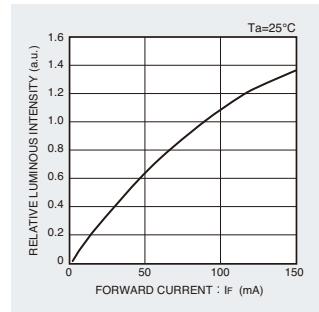
Forward Voltage-Forward Current



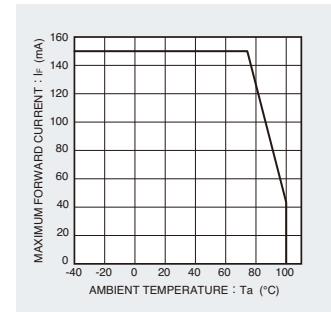
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



- □SMLK18WBJAW
- □SMLK18WBJBW
- □SMLK18WBJCW
- □SMLK18WBJDW
- □SMLK28WBJCW

- □SMLK18WBJAW
- □SMLK18WBJBW
- □SMLK18WBJCW
- □SMLK18WBJDW
- □SMLK28WBJCW

- □SMLK18WBJAW
- □SMLK18WBJBW
- □SMLK18WBJCW
- □SMLK18WBJDW
- □SMLK28WBJCW

- □SMLK18WBJAW
- □SMLK18WBJBW
- □SMLK18WBJCW
- □SMLK18WBJDW
- □SMLK28WBJCW

PSML3 Series

High Brightness
High Heat Dissipation White LEDs
PSL02 series



Color Type WB

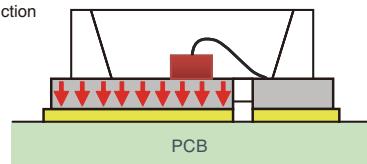
ROHM's Original Heat Dissipation Package

Optimized for both backlighting and illumination applications.

A new flat frame package type featuring high heat dissipation and high brightness is now available.

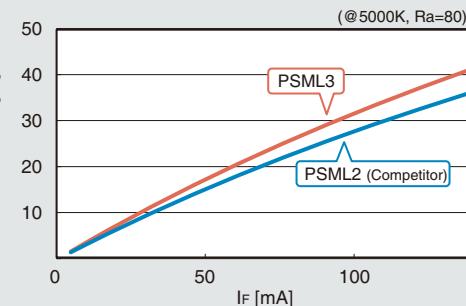
Optical output is increased with 5630 size package which is larger than PSML2 (4520).

Package Construction



Flat frame construction enables direct heat dissipation to the board

Forward Current vs. Luminous Flux



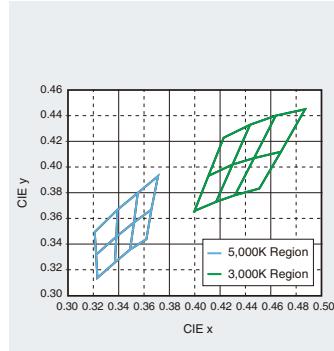
Luminous flux is improved in the high-current region compared with conventional products. In addition, heat generation is reduced even at high output.

Specifications

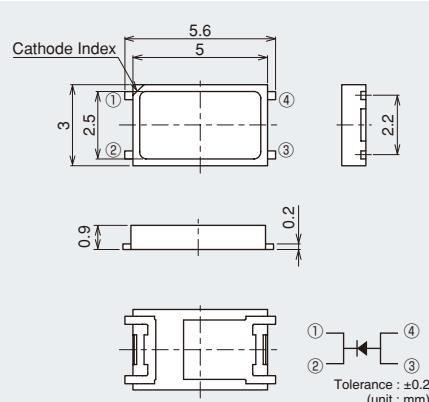
Part No.	Chip Structure	Emitted Color	Color Rendering Index (Ra)	Absolute Maximum Ratings (Ta=25°C)							Electrical and Optical Characteristics (Ta=25°C)							
				Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf Typ. (V)	Reverse Current Ir Max. (μA)	Vf (V)	Chromaticity Coordinates (x,y)	Luminous Intensity Iv Typ. (cd)	Iv (mA)	Luminous Flux φv Typ. (lm)	Iv (mA)	
□PSL0205WBEB	InGaN	White (5000K)	80	525	150	300 ^{**}	5	-40 to +100	-40 to +100	3.1	60	10	(0.345,0.350)	5.0	19			
□PSL0205WBEC			90															
□PSL0205WBED			70															
□PSL0205WBFB			80															
□PSL0205WBFC		White (3000K)	90										(0.440,0.405)	3.8	14			
□PSL0205WBFD			70															
□PSL0212W50B	InGaN	White (5000K)	83	540	150	300 ^{**}	—	-40 to +100	-40 to +100	3.15	120	—	(0.345,0.350)	4.2	16			
□PSL0212W50C			93															
□PSL0212W50D			75															
□PSL0212W30B		White (3000K)	80											(0.440,0.405)	4.5	21		60
□PSL0212W30C			90															
□PSL0212W30D			74															

*1:Ra=over 95 is available. *2:Duty ≤ 1/10, pulse width10ms Max.

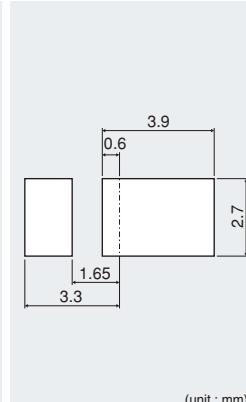
Chromaticity Diagram



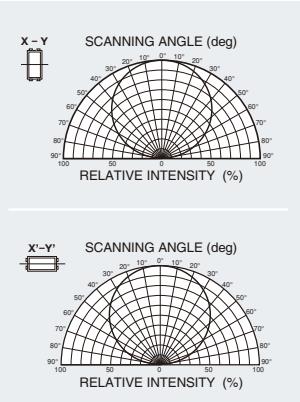
Dimensions



Recommended Solder Pattern



Viewing Angle



Electrical Characteristics Curves

Forward Voltage-Forward Current



Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



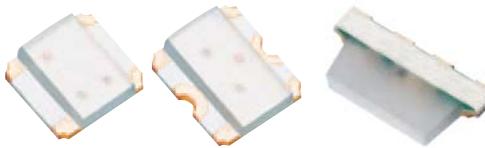
Derating



PICOLED™-RGB Series

High Brightness, and Side-view RGB LED in Debut

SMLP34RGB2W / SMLP36RGB2W / MSL0201RGB



Color Type
R G B

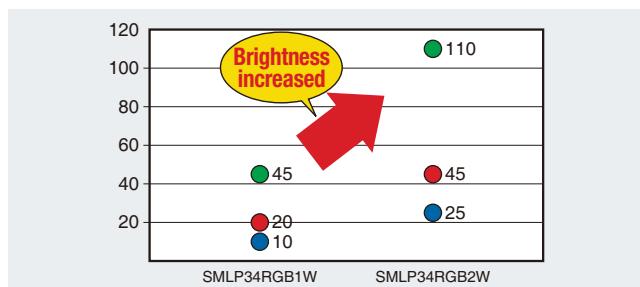
Thin package, side view RGB

Side view type now appeared in the line-up of small package 3 in 1 LED.
Height only 0.43mm, contribute space saving for mobile applications.



Ultra small and high brightness RGB1 LEDs

The luminous intensity improved drastically up keeping small size package by developing high luminance LED die.

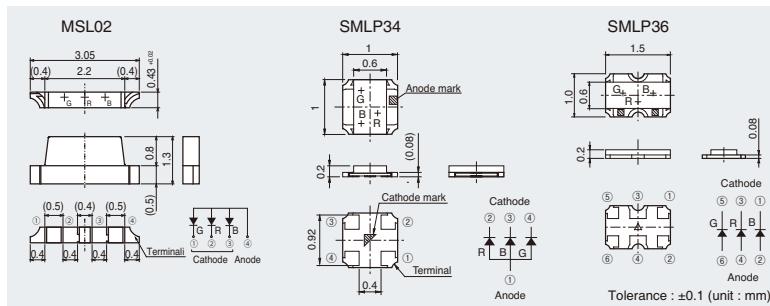


Specifications

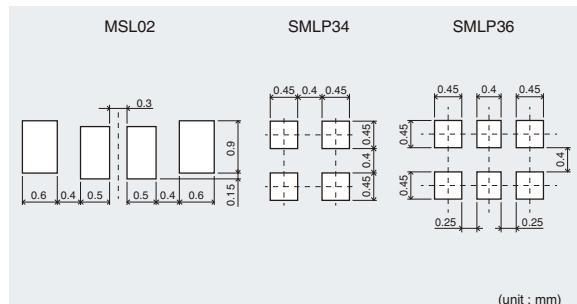
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)										
			Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ.(V)	Reverse Current IR Max.(μA)	Vr(V)	Dominant Wavelength λD Min.(nm)	Max.(nm)	Luminous Intensity Iv If(mA)	Min.(mcd)				
■ ■ MSL0201RGB (Side-View) ■	AlGaN/P	Red	20	100 ^{*1}	5	-40 to +85	-40 to +100	2.1			618	624	630	11	25			
		Green						3.0	5	100	5	519	527	536	5	56	90	5
		Blue						2.9			466	470	476	11	22			
■ ■ SMLP34RGB2W (4 terminals) ■	InGaN	Red	20	100 ^{*1}	5	-40 to +85	-40 to +100	2.2			619	624	629	14	35			
		Green						3.3	5	10	5	520	527	535	5	56	110	5
		Blue						3.2			465	470	475	28	45			
■ ■ SMLP36RGB2W (6 terminals) ■	AlGaN/P	Red	20	100 ^{*1}	5	-40 to +85	-40 to +100	2.2			619	624	629	14	35			
		Green						3.3	5	10	5	520	527	535	5	56	110	5
		Blue						3.2			465	470	475	28	45			

*1: Duty ≤ 1/20, 1kHz *2 : Reference

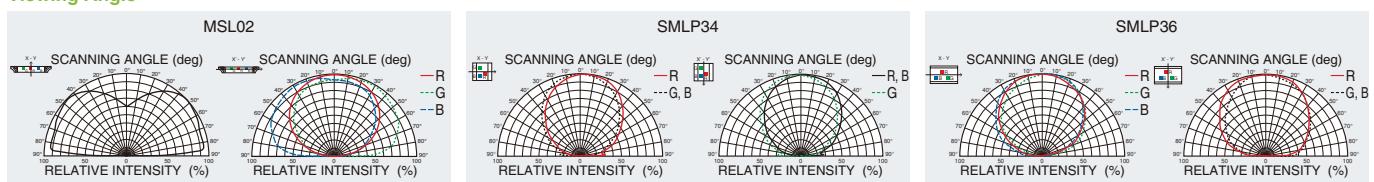
Dimensions



Recommended Solder Pattern



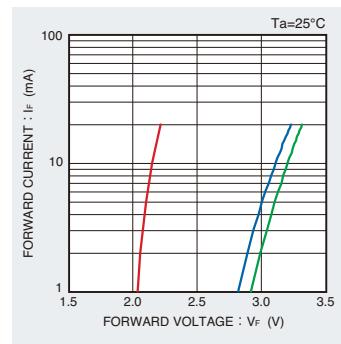
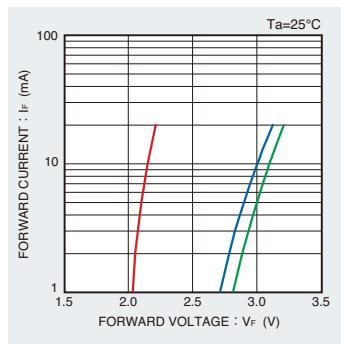
Viewing Angle



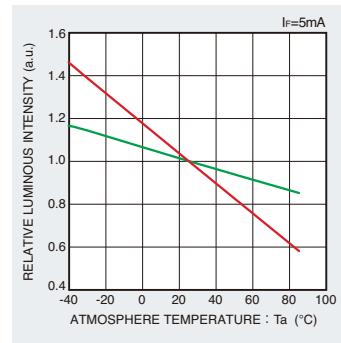
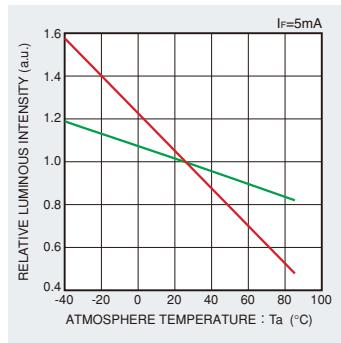
* PICOLED™ is ROHM's pending trademark.

Electrical Characteristics Curves

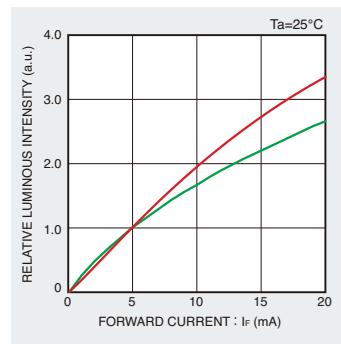
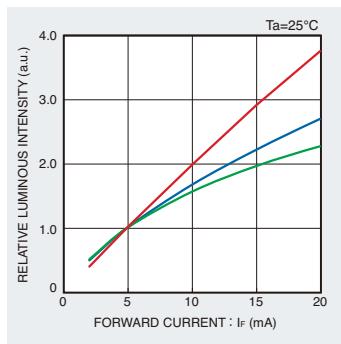
Forward Voltage-Forward Current



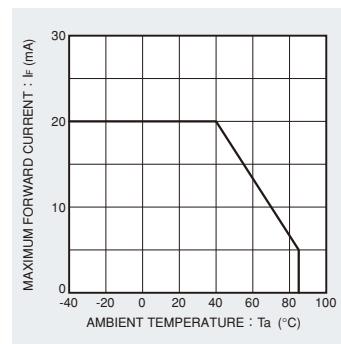
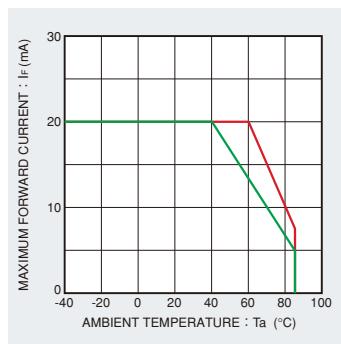
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



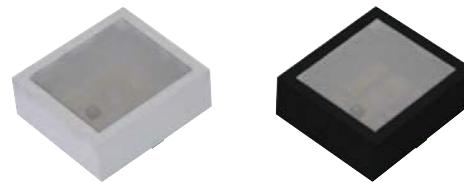
Derating



GC-RGB Series

Compact High Brightness RGB LEDs with Reflector

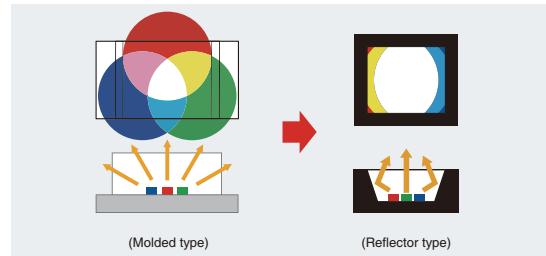
MSL0301RGB / MSL0401RGB



Color Type
R G B

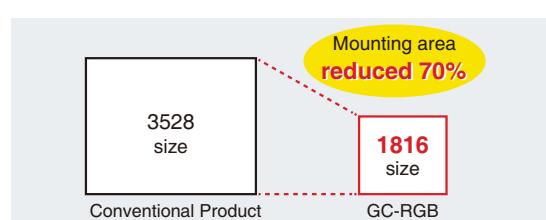
High brightness with excellent color mixing

Reflector design increases luminosity at the front while minimizing light leakage from the sides. In addition, die miniaturization technology makes it possible to place the dies closer together for excellent color mixing characteristics.



Industry's smallest mounting area

ROHM's 1816-size reflector-type RGB is the smallest in its class, reducing mounting area considerably. The lineup includes white/black reflector models in 4- or 6-pin configurations for broad applicability.

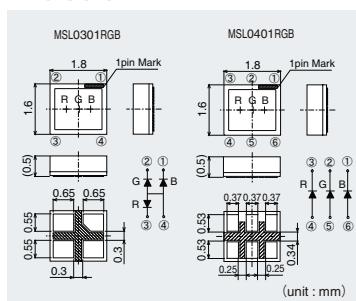


Specifications

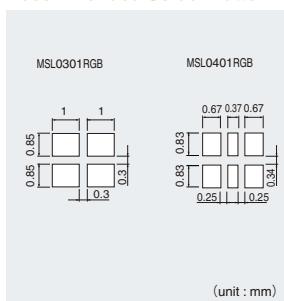
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation ^{*1} Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf(Typ.)	Reverse Current If Max.(μA)	Vf(mA)	Dominant Wavelength λD Min. (nm)	Typ. (nm)	Max. (nm)	Luminous Intensity If(mA)	Min. (mcd)	Typ. (mcd)	If(mA)	
■ MSL0301RGBW ■ MSL0401RGBW	AlGaN/P	Red	104	40					2.1	10		618	624	630		220	400		
		Green	120		30	100 ^{*2}	5	-40 to +85	-40 to +100	3.4	20	5	519	527	536	20	360	550	20
		Blue	114						3.3			464	470	476		90	180		
■ MSL0301RGBB ■ MSL0401RGBB	InGaN	Red	104	40					2.1	10		618	624	630		220	220		
		Green	120		30	100 ^{*2}	5	-40 to +85	-40 to +100	3.4	20	5	519	527	536	20	360	280	20
		Blue	114						3.3			464	470	476		90	90		

*1: Total power dissipation in the case of lighting all 3 colors (reduce by 30% a color)
*2: Duty ≤ 1/5, 1 kHz (FR4 50mmx50mm substrate, t=1.6mm, copper foil t=0.07mm)

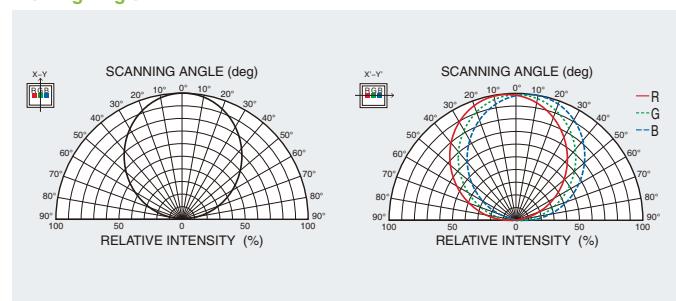
Dimensions



Recommended Solder Pattern

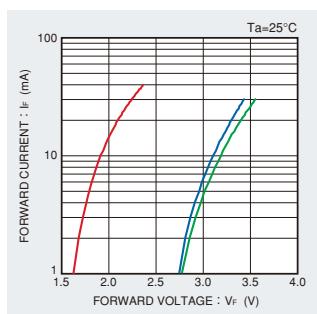


Viewing Angle

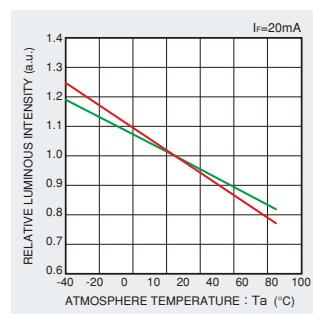


Electrical Characteristics Curves

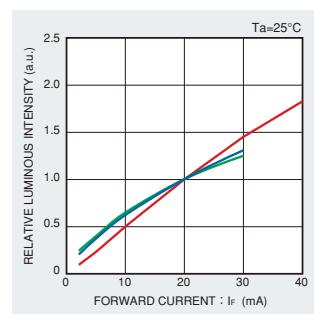
Forward Voltage-Forward Current



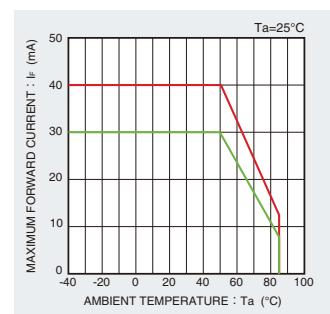
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



SRGB-Black

More Vivid RGB LEDs

SMLV36RGB1B



Color Type R G B

New package technology offering more vivid emitting color

Making more vivid contrast lowering diffused reflection, by using black reflector.

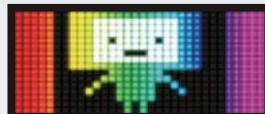
Also the black package have good effect for display usage.

Making LEDs invisible when it is off, and showing lighted LED more vivid.

Dot Matrix Example



Using white reflector



Using black reflector

New package technology producing vivid color

Conventional product



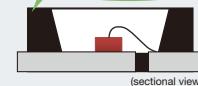
to black reflector

Vivid type SRGB2-Black



Visibility of light is reduced because of diffused reflection caused by white reflector with large reflectance.

Diffused reflection is lowered by changing the color of reflector into black.



(sectional view)

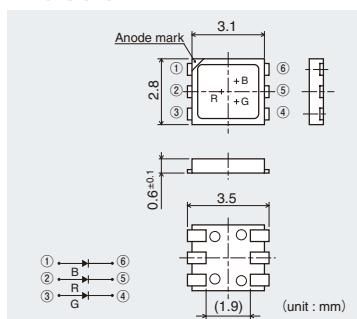
Specifications

Part No.	Chip Structure	Emitted 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.)	Reverse Current Ir	Dominant Wavelength λD	Luminous Intensity Iv	Min. (nm)	Typ. (nm)	Max. (nm)	Ir(mA)	Min. (mcd)	Typ. (mcd)
■	AlGaN/P	Red	130 ^{*1}	50		5			2.1		618	624	630			220	360	
■ SMLV36RGB1B	Green			100 ^{*2}	40		-40 to +85	-40 to +100	3.4	20	519	527	536	20	360	630	20	
■	InGaN								3.3		464	470	476			140	250	
■	Blue																	

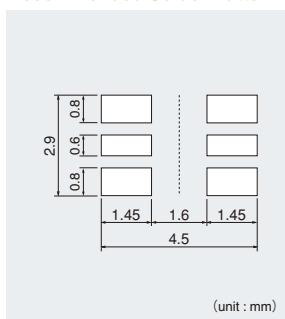
*1: Total power dissipation in the case of lighting all 3 colors (reduce by 30% a color)

*2: Duty ≤ 1/20, 1ms(FR4 50mmx50mm substrate, t=1.6mm), copper foil t=0.07mm)

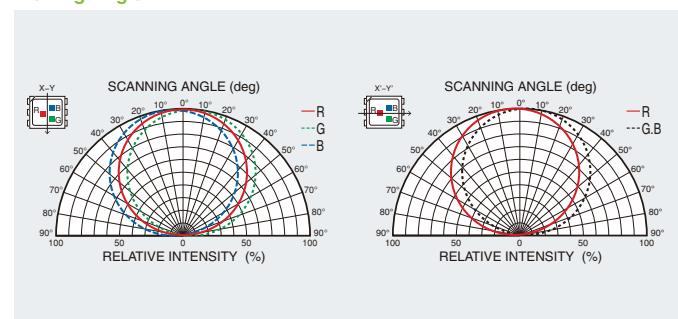
Dimensions



Recommended Solder Pattern

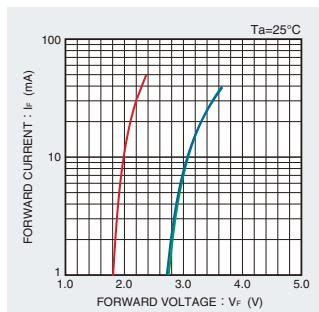


Viewing Angle

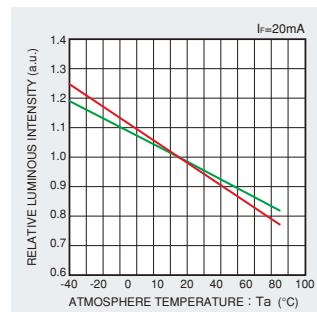


Electrical Characteristics Curves

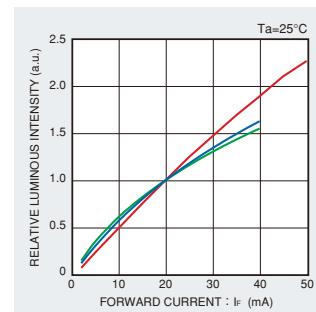
Forward Voltage-Forward Current



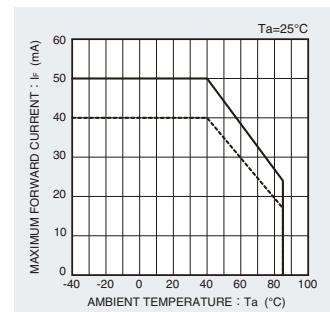
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



■ SMLV36RGB1B(R)
■ SMLV36RGB1B(G)
■ SMLV36RGB1B(B)

■ SMLV36RGB1B(R)
■ SMLV36RGB1B(G)
■ SMLV36RGB1B(B)

■ SMLV36RGB1B(R)
■ SMLV36RGB1B(G)
■ SMLV36RGB1B(B)

ROHM
SEMICONDUCTOR

LED New Products

11

SRGB-S Series

High Luminosity Side View LEDs

MSL0101 series / MSL0102 series

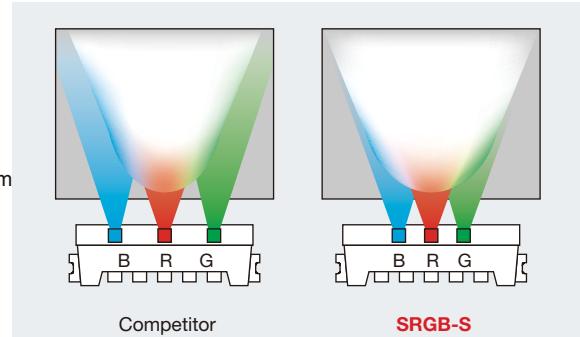


Excellent color mixing characteristics ensure superior color reproduction

The side view configuration is suitable for waveguide applications.

Use in combination with top view types for easy color matching.

In addition, original mounting technology ensures excellent color mixing, making them ideal for illumination and lighting devices.



High Luminosity White LED

White LED is newly added in the line up of high luminosity side view package.

Available to select the usage of RGB and white LED.

High power side-view LED with 60mS(max 100mA), realizing typ. 3.5cd.

Suitable for customers looking for brighter white LED.

Also, this product is high ESD with built-in diode.

Specifications(RGB)

Part No.	Chip Structure	Emitted 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)	Reverse Current Ir	Dominant Wavelength λD	Luminous Intensity If(mA)	Min. (mcd)	Typ. (mcd)
■	AlGaN/P	Red		50					2.1	10	5	619	624	629
■ MSL0101RGB	InGaN	Green	400	100*	5	-40 to +85	-40 to +100		3.3	20	-	520	527	535
■	InGaN	Blue		40					3.2	-	-	465	470	475
												220	230	400

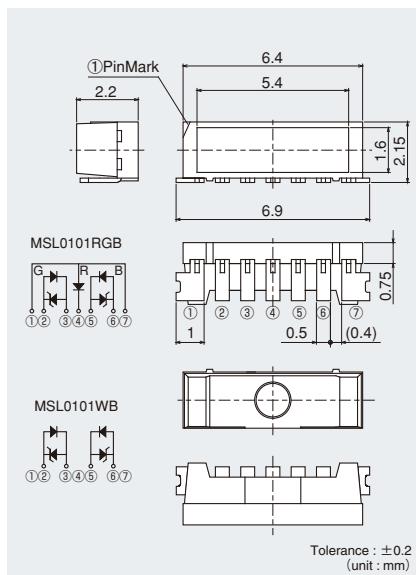
* Duty1/20, 1ms

Specifications(White)

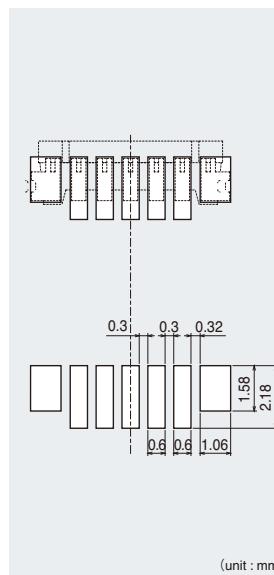
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)						
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf(Typ.V)	Reverse Current Ir	Chromaticity Coordinates (x, y)	Luminous Intensity If(mA)	Min. (mcd)	Typ. (mcd)	
□ MSL0102WB	InGaN	White	400	100	100*	5	-40 to +85	-40 to +100	3.2	60	(0.30, 0.28)	60	3300	5800	60

* Duty1/10, 1kHz

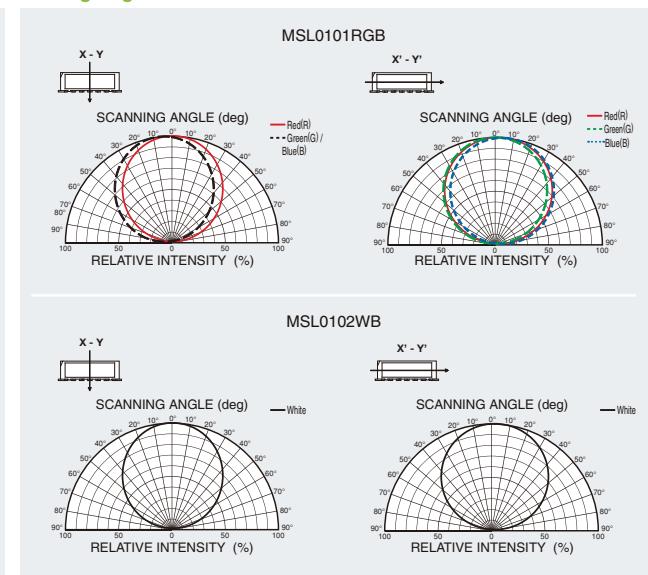
Dimensions



Recommended Solder Pattern

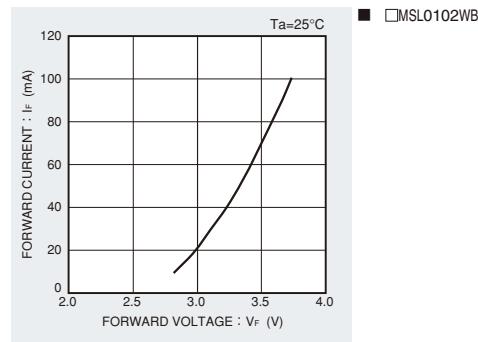
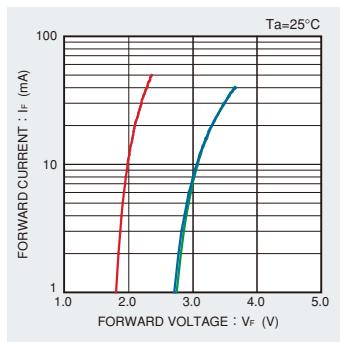


Viewing Angle

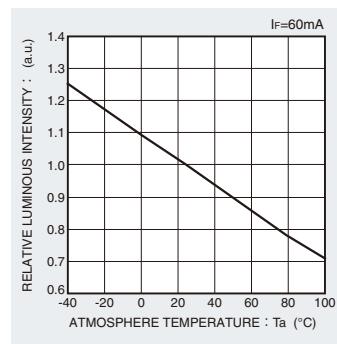
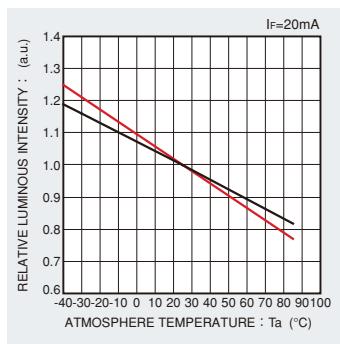


Electrical Characteristics Curves

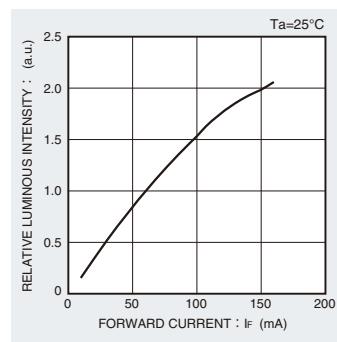
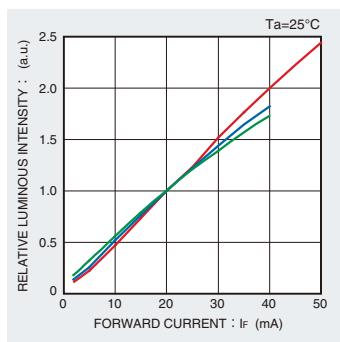
Forward Voltage-Forward Current



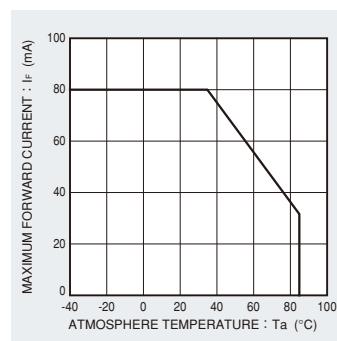
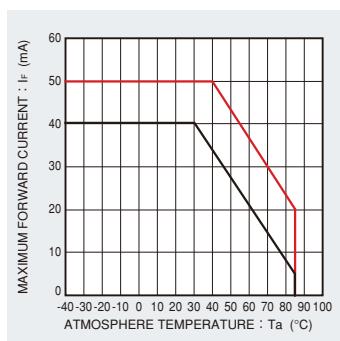
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



Lamp

Wide Viewing Angle Oval Type Lamp LEDs SLD430 / SLI-430 series



Color Type	U	D	Y
	M	B	WB

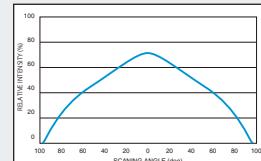
Wide viewing angle made possible by Rohm's original lens design

Use of oval lens made wide viewing angle on behalf of narrow viewing angle at vertical.

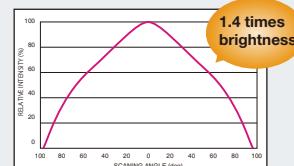
Therefore it has vivid view from the side, and is suitable for displays.

Also it is about 1.4 times brighter than the product of same viewing angle, for it condenses the light to the cross direction.

Example of indicator



(circular type)



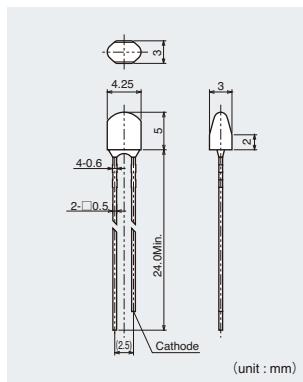
(oval type)

Specifications

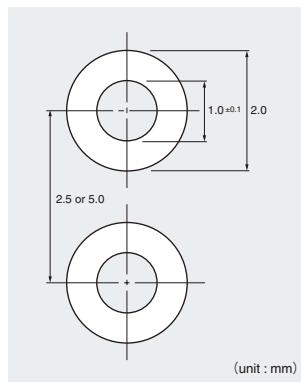
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)							
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf Typ.(V)	If(mA)	Reverse Current Ir Max.(μA)	Vr(V)	Dominant Wavelength λD typ.(nm)	Min. Luminous Iv If(mA)	Typ. Luminous Iv If(mA)	Max. Luminous Iv If(mA)
■ SLI-430U2R	AlGaNp	Red	75	30	100*	9	-40 to +85	-40 to +100	2.0				620		220	400
■ SLI-430DU		Orange							2.1				605		470	
■ SLI-430Y2U		Yellow							2.1	20	10	9	590		330	500
■ SLI-430MG		Yellowish Green											570	20	68	120
■ SLD430BD2W		Blue							3.2				470		330	560
□ SLD430WBD2PT	InGaN	White	120			5	-20 to +80	-30 to +100					(0.31, 0.31)		680	1850

* Duty1/10, 1kHz

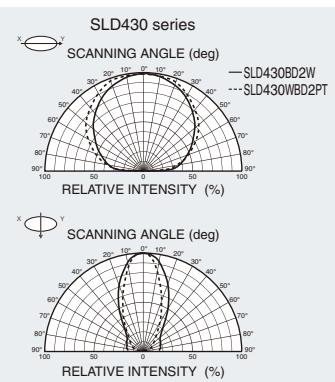
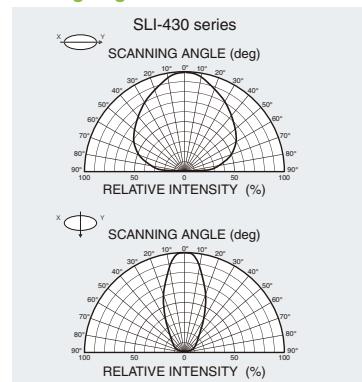
Dimensions



Recommended Solder Pattern

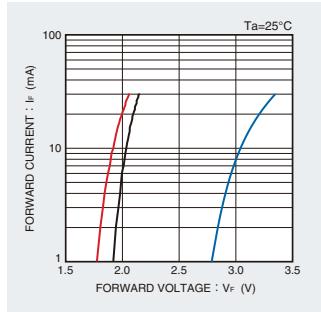


Viewing Angle

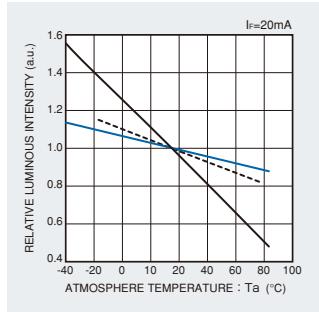


Electrical Characteristics Curves

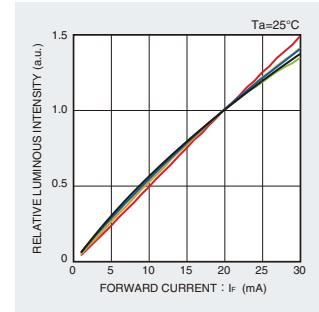
Forward Voltage-Forward Current



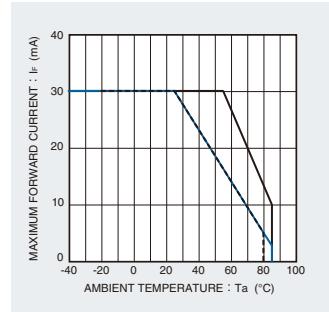
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



LED New Products

- SLI-430U2R
- SLI-430DU
- SLI-430Y2U
- SLI-430MG
- SLD430BD2W
- SLD430WBD2PT

- SLI-430U2R
- SLI-430DU
- SLI-430Y2U
- SLI-430MG
- SLD430BD2W
- SLD430WBD2PT

Lamp

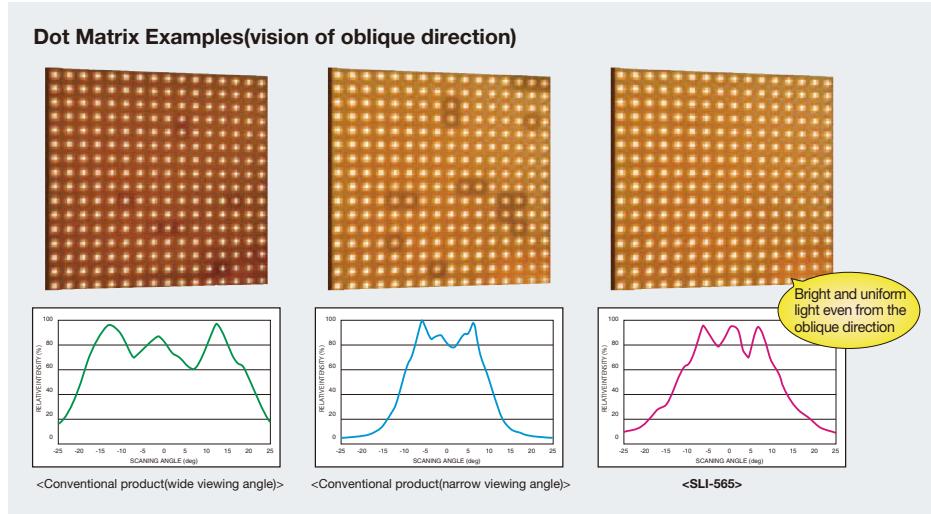
High Luminosity Wide Viewing Angle Lamp LEDs SLI-565 series



Color Type Y

High luminosity LED of viewing angle 25°

Viewing angle 25° type is newly added in the Rohm's lamp LEDs.

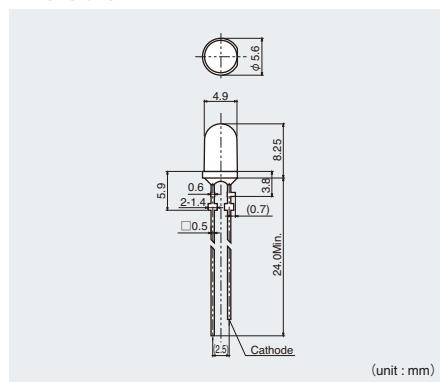


Specifications

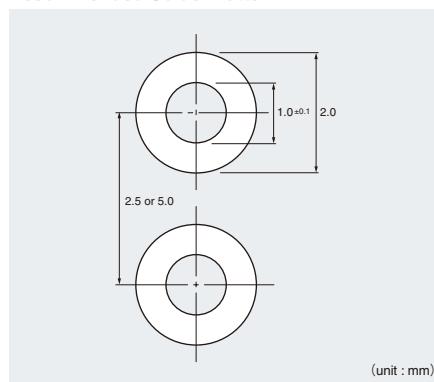
Part No.	Chip Structure	Emitted Color	Absolute Maximum Ratings (Ta=25°C)							Electrical and Optical Characteristics (Ta=25°C)							
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current IfP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tsfg(°C)	Forward Voltage Vf Typ.(V)	Reverse Current Ir Max.(μA)	Vr(V)	Dominant Wavelength λD Typ.(nm)	If(mA)	Luminous Intensity Iv			
■ SLI-565Y5C	AlGaNp	Yellow	125	50	200*	9	-40 to +85	-40 to +100	2.0	20	10	9	590	20	1500	3400	20

* Duty1/10, 1kHz

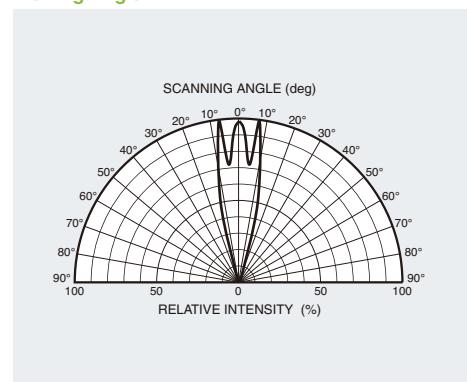
Dimensions



Recommended Solder Pattern

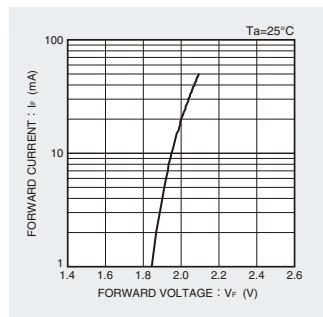


Viewing Angle

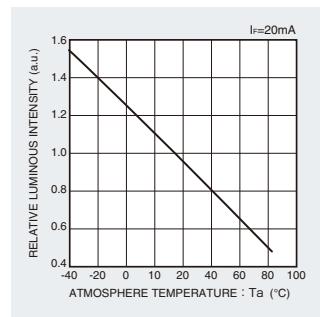


Electrical Characteristics Curves

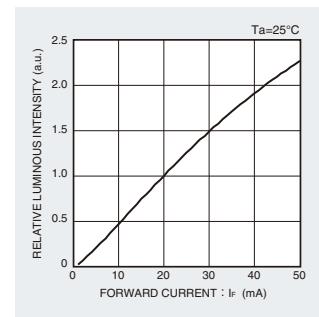
Forward Voltage-Forward Current



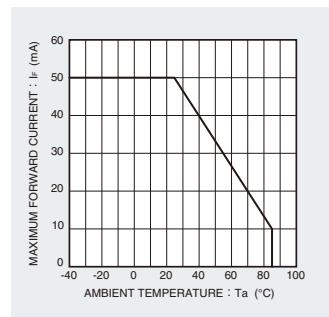
Atmosphere Temperature-Relative Luminous Intensity



Forward Current-Relative Luminous Intensity



Derating



■ SLI-565Y5C

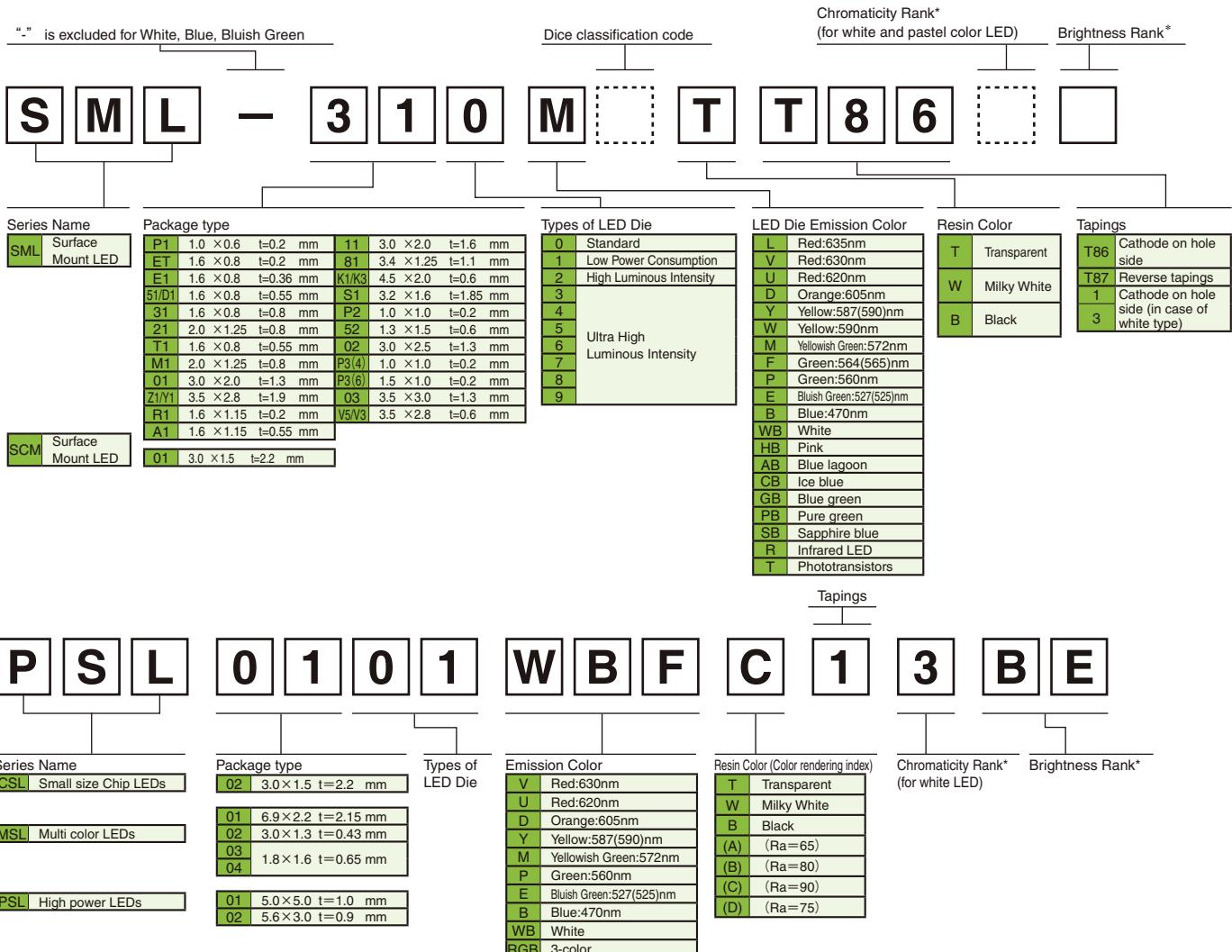
■ SLI-565Y5C

■ SLI-565Y5C

■ SLI-565Y5C

Part No. Structure (SMD LEDs)

- Appoint by part names when ordering
- Refer to each category below for details of part No. structure
- Skip if there is a blank space
- *Part names are appointed individually per each ranks.
- *Please refer to specifications sheet for details.



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