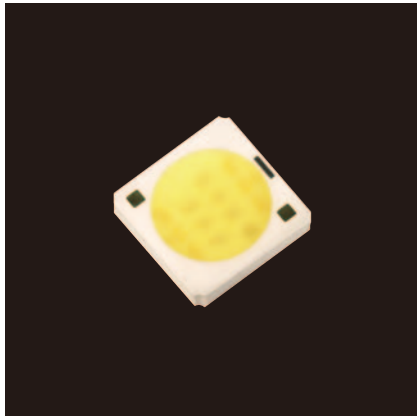




PSL0102 series

Features

- High Power White LEDs "SSML series"
- Achieves operation temperature of 130°C
- High reliability package due to anti-sulfur measures

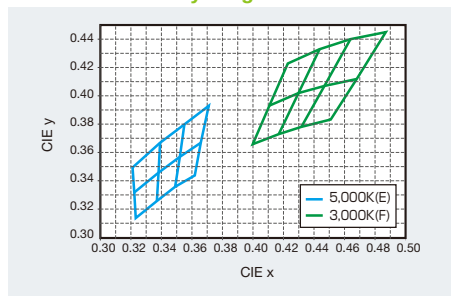
 Color Type **WB**

Specifications

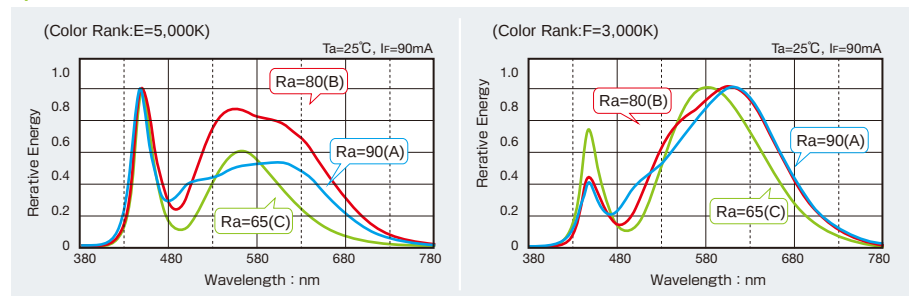
Part No.	Chip Structure	Emitting Color	Color Rending Index (Ra)	Absolute Maximum Ratings (Ta=25℃)					Electrical and Optical Characteristics (Ta=25℃)								
				Power Dissipation P _o (mW)	Forward Current I _f (mA)	Peak Forward Current I _{FP} (mA)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage V _f		Chromaticity (x, y)	I _f (mA)	Luminous Intensity I _v			Luminous Flux Φ _v	
									Typ.(V)	I _f (mA)				Min. (cd)	Typ. (cd)	I _f (mA)	Typ. (lm)
□ PSL0102WBEA			65									8.2	12		44		100
□ PSL0102WBEB		White (5,000K)	80								(0.345, 0.352)	5.4	10.8		38		95
□ PSL0102WBEC			90										8.2			30	
□ PSL0102WBED	InGaN		74	0.78	200 ^{※1}	400 ^{※2}	-40 to +130	-40 to +130	3.3	120	120	8.2	11.6	120	42	120	75
□ PSL0102WBFA			65														
□ PSL0102WBFB		White (3,000K)	80								(0.437, 0.404)		8.5		31		78
□ PSL0102WBFC			90										5.4	7		25	
□ PSL0102WBFD			75									8.2	10.6		37		93

※1: Mounting condition must be carefully considered ※2: Duty ≤ 1/10, ≤ 10ms max.

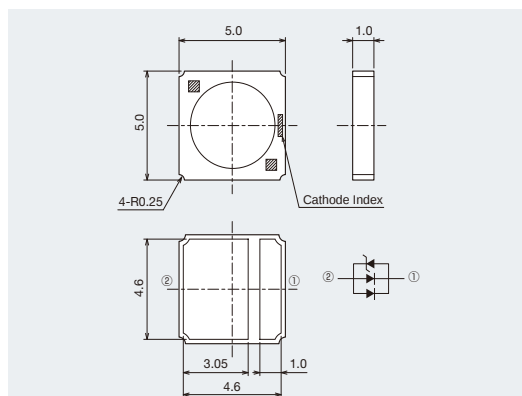
White Chromaticity Diagram



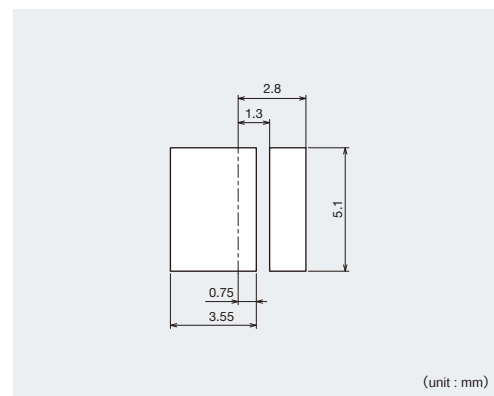
Spectrum Data



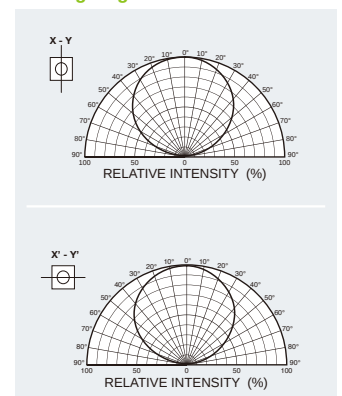
Dimensions



Recommended Solder Pattern

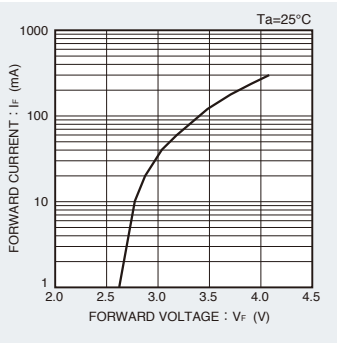


Viewing Angle



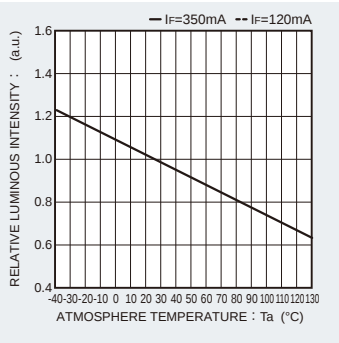
Electrical Characteristics Curves

Forward Current-Forward Voltage



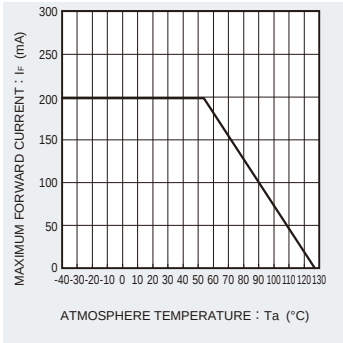
- ☐ PSL0101WBEA
☐ PSL0101WBEB
☐ PSL0101WBEC
☐ PSL0101WBED
☐ PSL0101WBFA
☐ PSL0101WBFB
☐ PSL0101WBFC
☐ PSL0101WBFD
- ☒ PSL0102WBEA
☐ PSL0102WBEB
☐ PSL0102WBEC
☐ PSL0102WBED

Luminous Intensity-Atmosphere Temperature



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

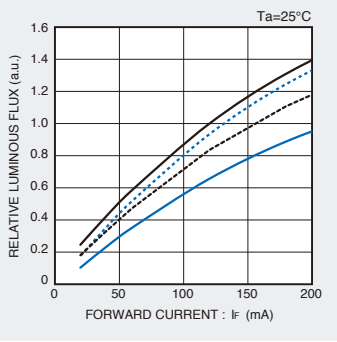
Derating



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

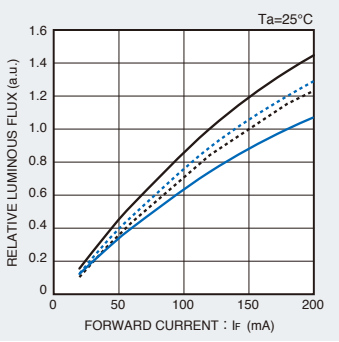
Luminous Flux-Forward Current (PSL0102 series)

[5000K]



- ☐ PSL0102WBEA
☒ PSL0102WBEB
☐ PSL0102WBEC
☒ PSL0102WBED

[3000K]



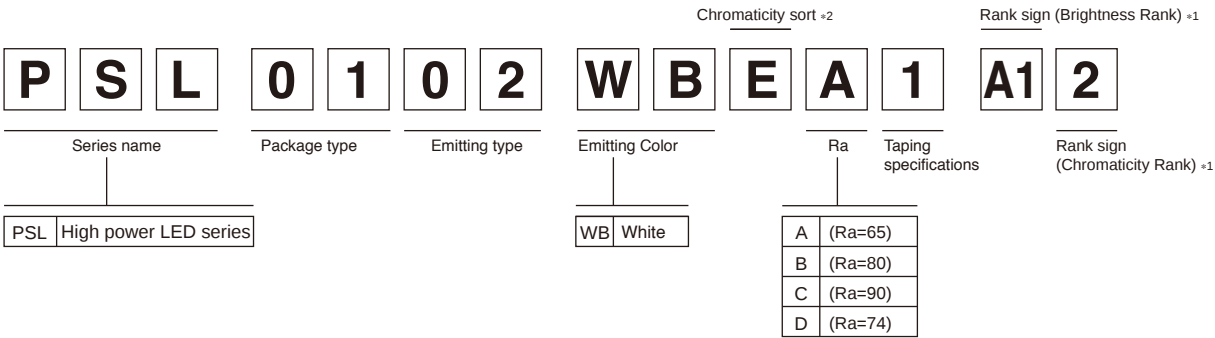
- ☐ PSL0102WBFA
☒ PSL0102WBFB
☐ PSL0102WBFC
☒ PSL0102WBFD

Rank Reference of Brightness

White (WB)

Package structure	Package size	Height (mm)	Luminous flux (lm) I _F (mA)	91	92	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2
				0 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	90 to 100	100 to 110	110~120
SSML	5050	1.0	120			PSL0102WBEA									
						PSL0102WBEB									
						PSL0102WBEC									
						PSL0102WBED									
						PSL0102WBFA									
						PSL0102WBFB									
						PSL0102WBFC									
						PSL0102WBFD									

Part No. Construction



*1 Concerning the Brightness rank

- Please refer to the rank chart above for luminous intensity classification.
- Please refer to the Specification sheet 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.

*2 Please refer to chromaticity diagram.

*Please refer to the Specification sheet about Taping specification.

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 distributor if necessary.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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