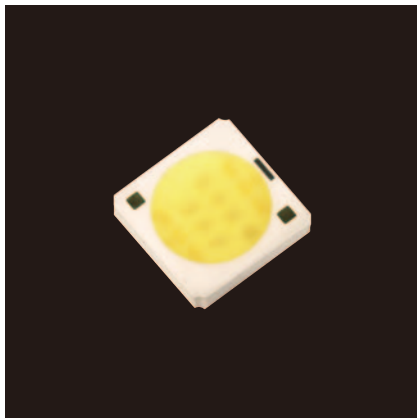




PSL0101 series

Features

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

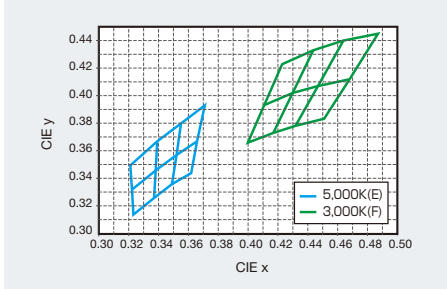
 Color Type **WB**

Specifications

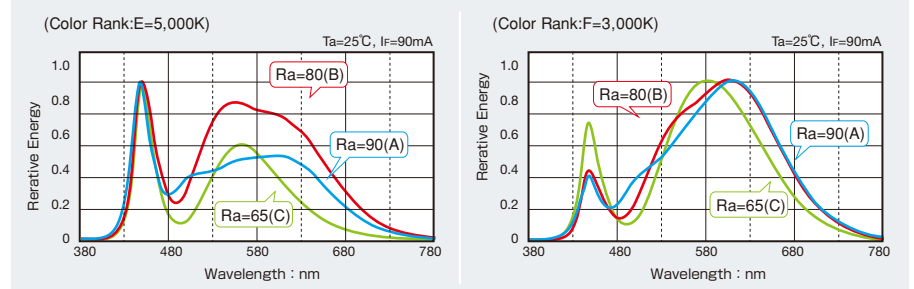
Part No.	Chip Structure	Emitting Color	Color Rending Index (Ra)	Absolute Maximum Ratings (Ta=25℃)					Electrical and Optical Characteristics (Ta=25℃)																		
				Power Dissipation P _o (mW)	Forward Current I _f (mA)	Peak Forward Current I _{FP} (mA)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage V _f		Chromaticity (x, y)	I _f (mA)	Luminous Intensity I _v		Luminous Flux Φ _v		Luminous Efficiency (lm/W)										
									Typ.(V)	I _f (mA)				Min. (cd)	Typ. (cd)	I _f (mA)		Typ. (lm)	I _f (mA)								
□ PSL0101WBEA		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	24.5	32.6	350	95		82									
□ PSL0101WBEB			80										21.8	26		85		74									
□ PSL0101WBEC			90										19	25		70		61									
□ PSL0101WBED	InGaN		75																	24.5	32.6		95	350	85		
□ PSL0101WBFA			65																	19	28		90		78		
□ PSL0101WBFB		White (3,000K)	80																(0.437, 0.404)		16.3	22		80		70	
□ PSL0101WBFC			90																			13.6	20		65		56
□ PSL0101WBFD			74																				19	28		90	

^{*1}: Mounting condition must be carefully considered ^{*2}: Duty ≤ 1/10, ≤ 10ms

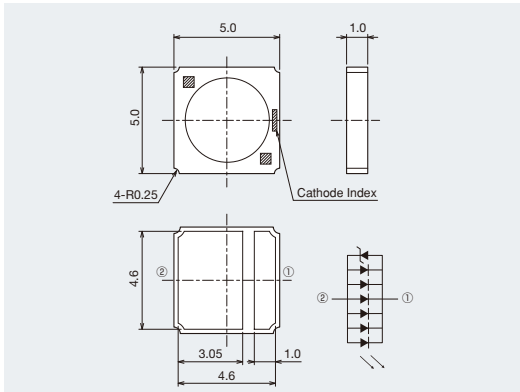
White Chromaticity Diagram



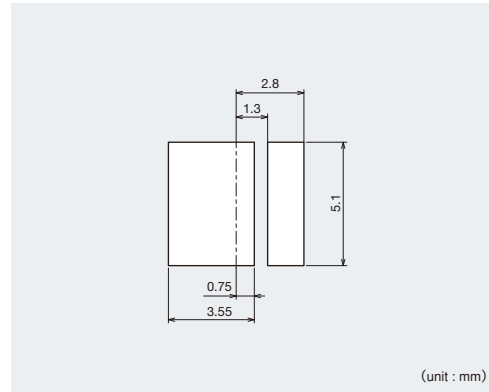
Spectram Data



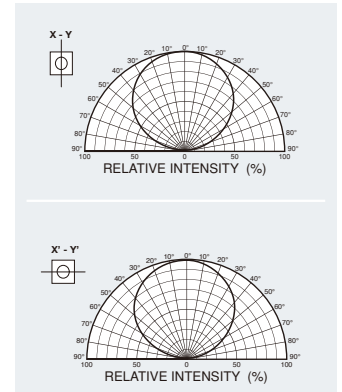
Dimensions



Recommended Solder Pattern

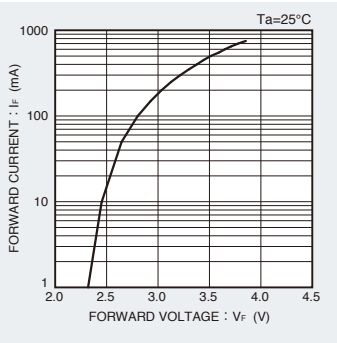


Viewing Angle



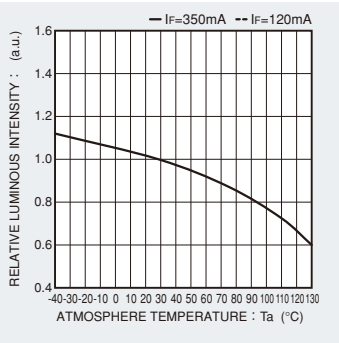
Electrical Characteristics Curves

Forward Current-Forward Voltage



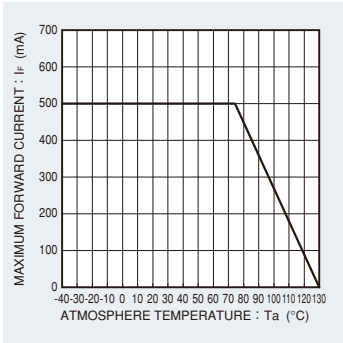
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD

Luminous Intensity-Atmosphere Temperature



- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD

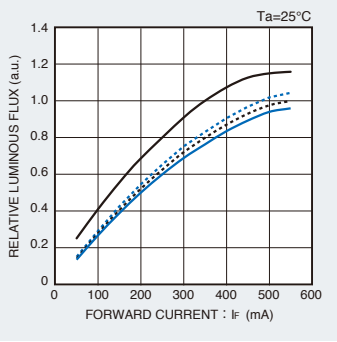
Derating



- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD

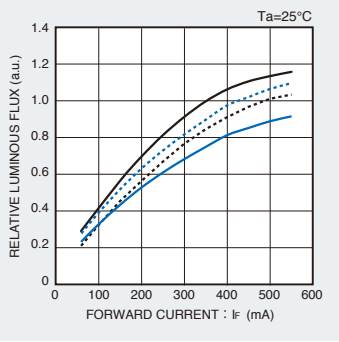
Luminous Flux-Forward Current (PSL0101 series)

[5000K]



- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED

[3000K]



- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD

Rank Reference of Brightness

White (WB)

Package structure	Package size	Height (mm)	Luminous flux (lm) I _F (mA)	J1	J2	K1	K2	L1	L2	M1	M2	N1	N2	P1	P2	Q1	Q2	R1	R2	S1	S2
				12.7 to 15.1	15.1 to 18	18 to 21.4	21.4 to 25.5	25.5 to 30.3	30.3 to 36	36 to 42.8	42.8 to 51	51 to 60.5	60.5 to 70	70 to 80	80 to 90	90 to 100	100 to 110	110 to 120	120 to 130	130 to 140	140 to 150
SSML	5050	1.0	350													PSL0101WBEA					
																PSL0101WBEB					
																PSL0101WBEC					
																PSL0101WBED					
																PSL0101WBFA					
																PSL0101WBFB					
																PSL0101WBFC					
																PSL0101WBFD					

Part No. Construction

Chromaticity sort *2

Rank sign (Brightness Rank) *1

P

S

L

0

1

0

1

W

B

E

A

7

E1

2

Series name

Package type

Emitting type

Emitting Color

Ra

Taping specifications

Rank sign (Chromaticity Rank) *1

PSL

High power LED series

WB

White

A

(Ra=65)

B

(Ra=80)

C

(Ra=90)

D

(Ra=74)

*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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2012.01 - Rev.A

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