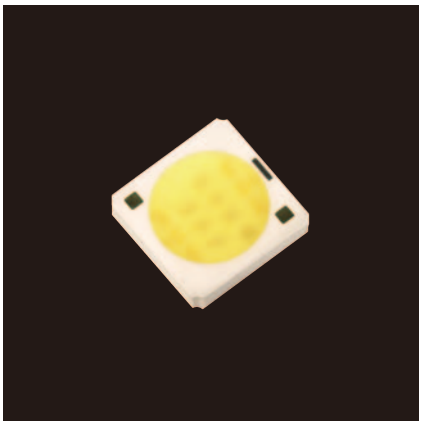


PSL0102 series

Features

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

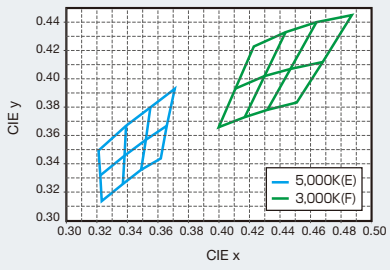
Color Type: WB

Specifications

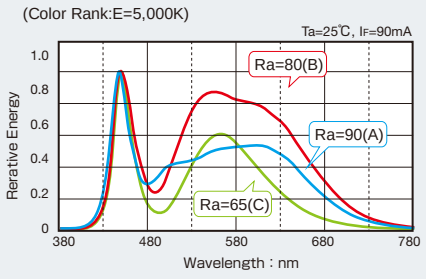
Part No.	Chip Structure	Emitting Color	Color Rending Index (Ra)	Absolute Maximum Ratings (Ta=25℃)					Electrical and Optical Characteristics (Ta=25℃)									
				Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}(mA)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage V_F Typ.(V)	Forward Voltage V_F I_F(mA)	Chromaticity (x, y)	Chromaticity I_F(mA)	Luminous Intensity Iv Min. (cd)	Luminous Intensity Iv Typ. (cd)	Luminous Intensity Iv I_F(mA)	Luminous Flux Φv Typ. (lm)	Luminous Flux Φv I_F(mA)	Luminous Efficiency (lm/W)
☐PSL0102WBEA	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	8.2	12	120	44	120	100
☐PSL0102WBEB			80										5.4	10.8		38		95
☐PSL0102WBEC			90											8.2		30		75
☐PSL0102WBED			74										8.2	11.6		42		75
☐PSL0102WBFA			65										8.2	10.6		37		93
☐PSL0102WBFB		White (3,000K)	80								(0.437, 0.404)		5.4	8.5		31		78
☐PSL0102WBFC			90											7		25		63
☐PSL0102WBFD			75										8.2	10.6		37		93

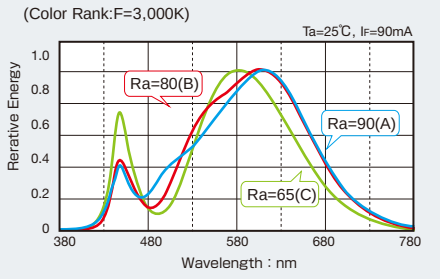
※1:Mounting condition must be carefully considered ※2:Duty≦1/10, ≦10ms max.

White Chromaticity Diagram

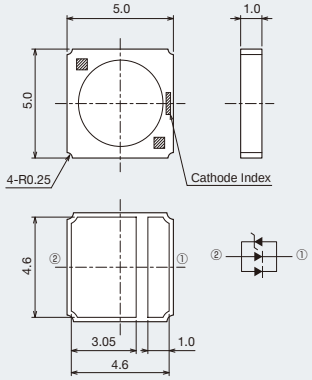


Spectram Data

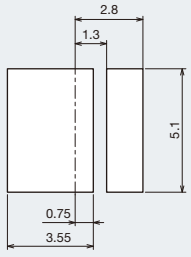




Dimensions

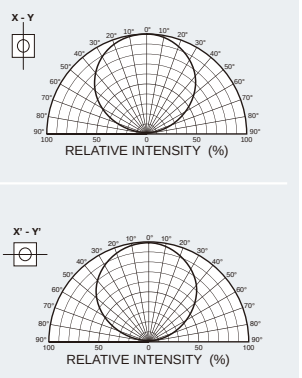


Recommended Solder Pattern



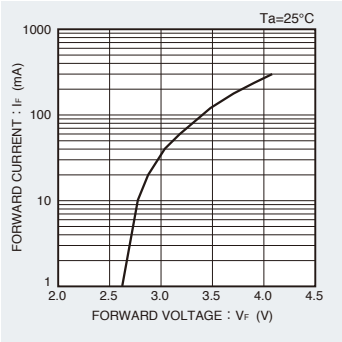
(unit : mm)

Viewing Angle



Electrical Characteristics Curves

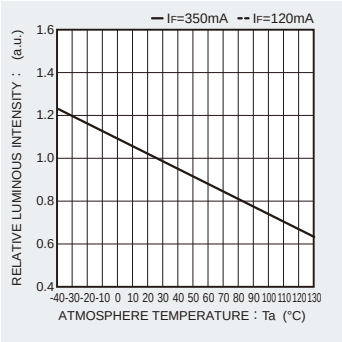
Forward Current-Forward Voltage



■ ☐PSL0101WBEA
☐PSL0101WBEB
☐PSL0101WBEC
☐PSL0101WBED
☐PSL0101WBFA
☐PSL0101WBFB
☐PSL0101WBFC
☐PSL0101WBFD

◩ ☐PSL0102WBEA
☐PSL0102WBEB
☐PSL0102WBEC
☐PSL0102WBED

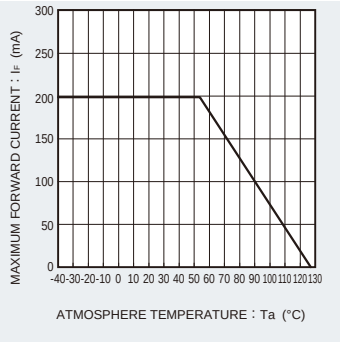
Luminous Intensity-Atmosphere Temperature



■ ☐PSL0101WBEA
☐PSL0101WBEB
☐PSL0101WBEC
☐PSL0101WBED
☐PSL0101WBFA
☐PSL0101WBFB
☐PSL0101WBFC
☐PSL0101WBFD

◩ ☐PSL0102WBEA
☐PSL0102WBEB
☐PSL0102WBEC
☐PSL0102WBED

Derating

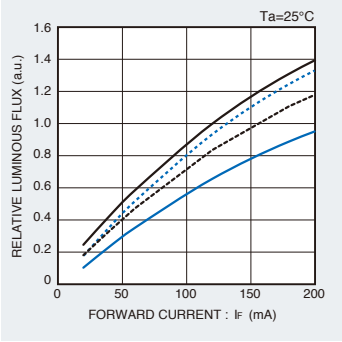


■ ☐PSL0101WBEA
☐PSL0101WBEB
☐PSL0101WBEC
☐PSL0101WBED
☐PSL0101WBFA
☐PSL0101WBFB
☐PSL0101WBFC
☐PSL0101WBFD

◩ ☐PSL0102WBEA
☐PSL0102WBEB
☐PSL0102WBEC
☐PSL0102WBED

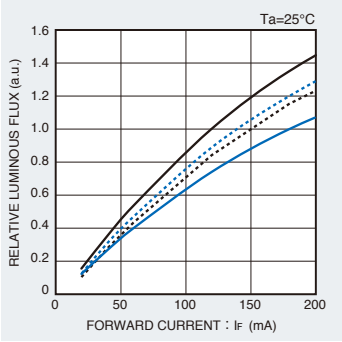
Luminous Flux-Forward Current (PSL0102 series)

【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

Chromaticity sort ∗2 — Rank sign (Brightness Rank) ∗1

P	S	L	0	1	0	2	W	B	E	A	1	A1	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 chromaticitydiagram.

∗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 distributer if necessary.

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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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