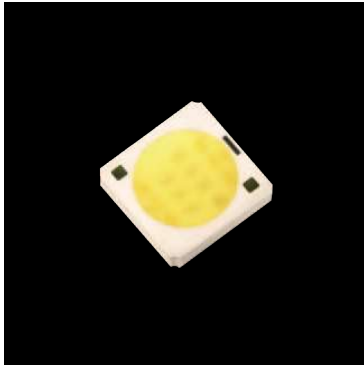




PSL0102 series

Features

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

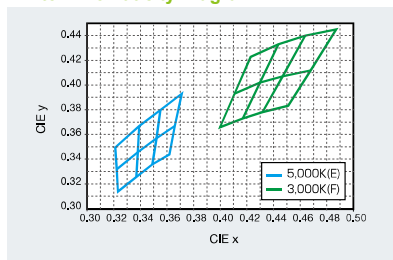
Color
Type WB

Specifications

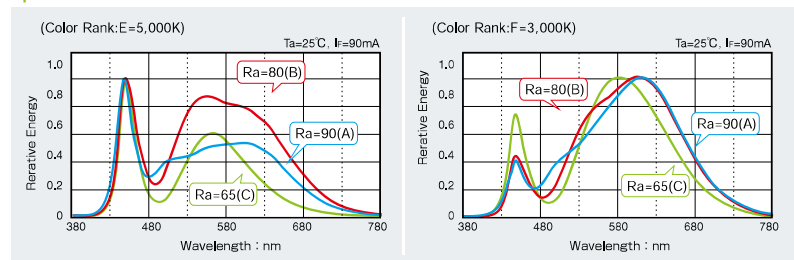
Part No.	Chip Structure	Emitting Color	Color Rendering Index (Ra)	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)						
				Power Dissipation Pd (mW)	Forward Current If (mA)	Peak Forward Current Ifp (mA)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage Vf Typ. (V)	Forward Current If (mA)	Chromaticity (x, y)	Luminous Intensity Iv Min. (cd)	Luminous Intensity Iv Typ. (cd)	Luminous Flux Φv Typ. (lm)	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)	8.2	12	44	100
PSL0102WBEB			80									5.4	10.8	38	95
PSL0102WBEC			90									8.2	8.2	30	75
PSL0102WBED		White (3,000K)	74								(0.437, 0.404)	8.2	11.6	42	75
PSL0102WBFA			65									8.2	10.6	37	93
PSL0102WBFB			80									5.4	8.5	31	78
PSL0102WBFC			90									7	7	25	63
PSL0102WBFD			75									8.2	10.6	37	93

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

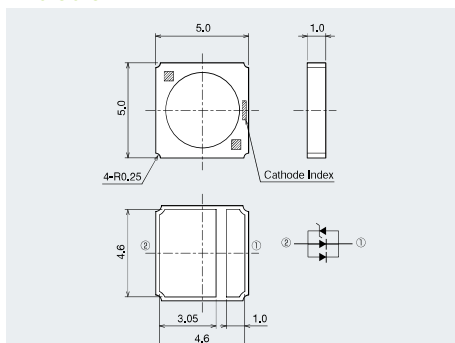
White Chromaticity Diagram



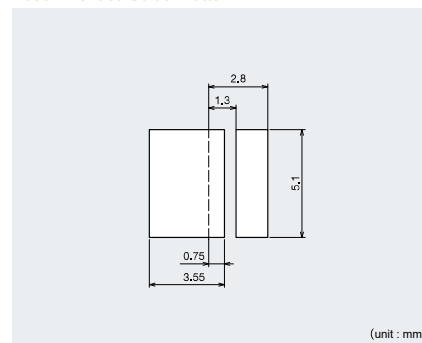
Spectrum Data



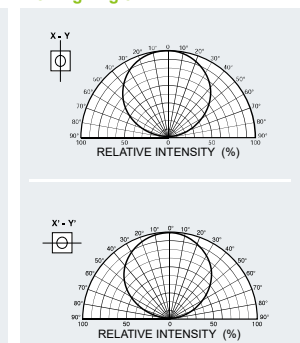
Dimensions



Recommended Solder Pattern

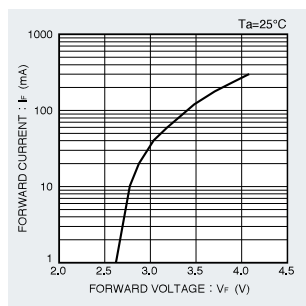


Viewing Angle



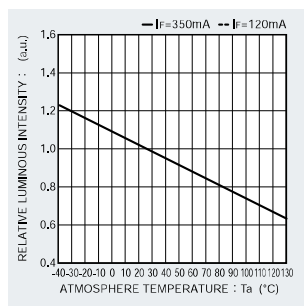
Electrical Characteristics Curves

Forward Current-Forward Voltage



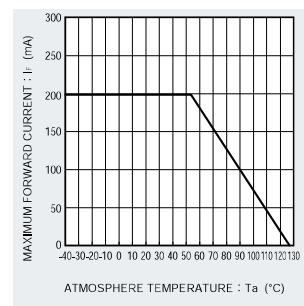
- ☐ PSL0101WBEA
- ☐ PSL0101WBEB
- ☐ PSL0101WBEC
- ☐ PSL0101WBED
- ☐ PSL0101WBFA
- ☐ PSL0101WBFB
- ☐ PSL0101WBFC
- ☐ PSL0101WBFD
- ☒ PSL0102WBEA
- ☒ PSL0102WBEB
- ☒ PSL0102WBEC
- ☒ PSL0102WBED

Luminous Intensity-Atmosphere Temperature



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

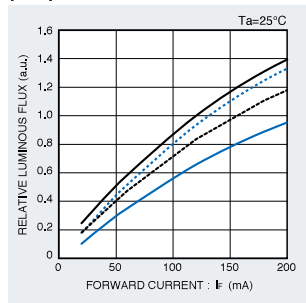
Derating



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

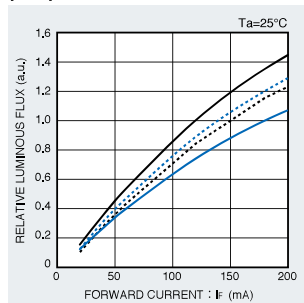
Luminous Flux-Forward Current (PSL0102 series)

[5000K]



- ☐ PSL0102WBEA
- ☒ PSL0102WBEB
- ☐ PSL0102WBEC
- ☐ PSL0102WBED

[3000K]



- ☐ PSL0102WBFA
- ☒ PSL0102WBFB
- ☐ PSL0102WBFC
- ☐ PSL0102WBFD

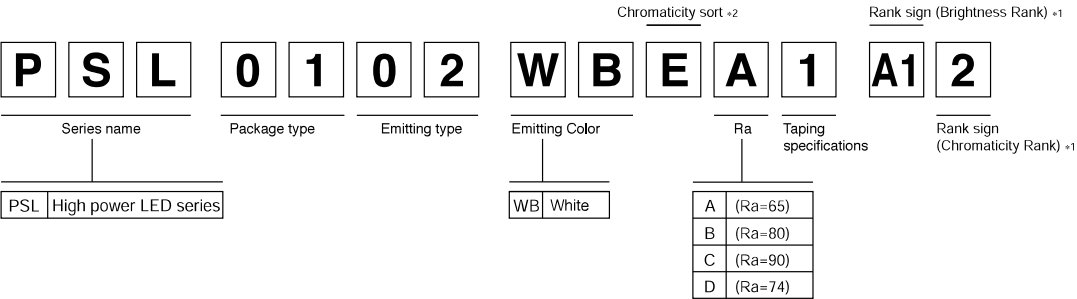
PSL0102 series

Rank Reference of Brightness

■ White (WB)

Package structure	Package size	Height (mm)	Luminous flux (lm)	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												

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.

Notes

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