

PSL0102 series

Features

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

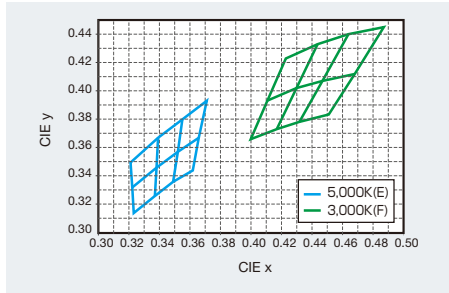
Color Type WB

Specifications

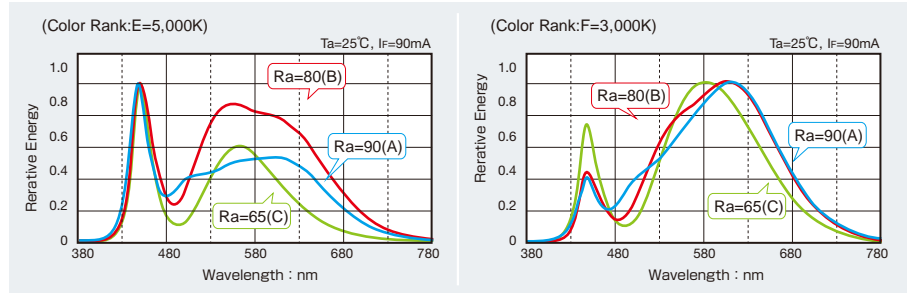
Part No.	Chip Structure	Emitting Color	Color Rendering Index (Ra)	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)								
				Power Dissipation P _o (mW)	Forward Current I _F (mA)	Peak Forward Current I _F (mA)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage V _F Typ.(V)	Chromaticity (x, y)	Luminous Intensity I _v Min.(cd)	Luminous Intensity I _v Typ.(cd)	Luminous Flux Φ _v Typ.(lm)	Luminous Efficiency (lm/W)			
<input type="checkbox"/> 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	120	44	120	100
<input type="checkbox"/> PSL0102WBEB			80									10.8	38		95		
<input type="checkbox"/> PSL0102WBEC			90									8.2	30		75		
<input type="checkbox"/> PSL0102WBED			74									11.6	42		75		
<input type="checkbox"/> PSL0102WBFA		White (3,000K)	65									8.2	10.6		37		93
<input type="checkbox"/> PSL0102WBFB			80									8.5	31		78		
<input type="checkbox"/> PSL0102WBFC			90									7	25		63		
<input type="checkbox"/> PSL0102WBFD			75									8.2	10.6		37		93

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

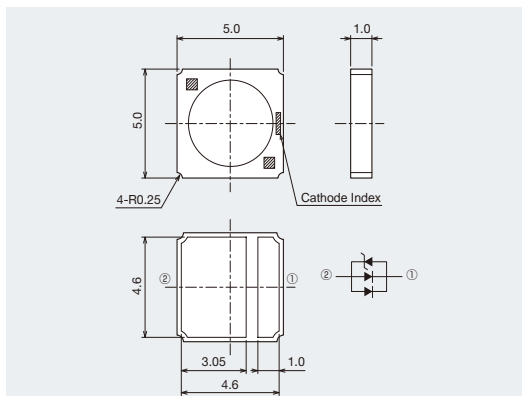
White Chromaticity Diagram



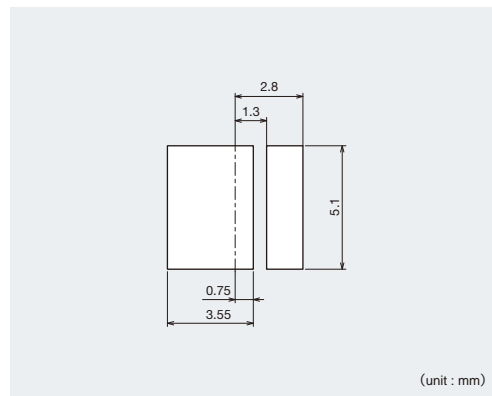
Spectrum Data



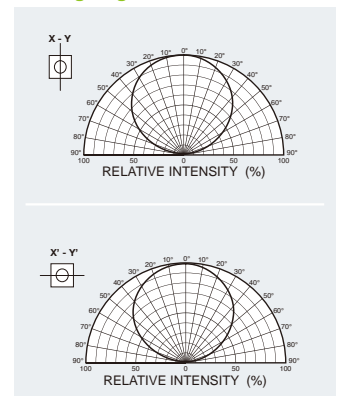
Dimensions



Recommended Solder Pattern

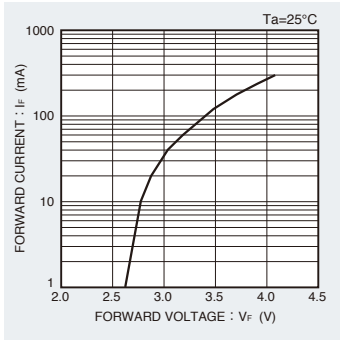


Viewing Angle



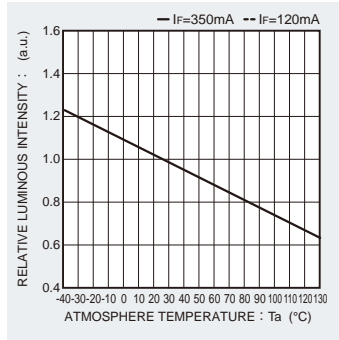
Electrical Characteristics Curves

Forward Current-Forward Voltage



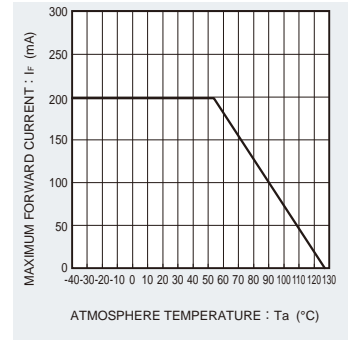
- PSL0101WBEA
- PSL0101WBEB
- PSL0101WBEC
- PSL0101WBED
- PSL0101WBFA
- PSL0101WBFB
- PSL0101WBFC
- PSL0101WBFD
- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

Luminous Intensity-Atmosphere Temperature



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

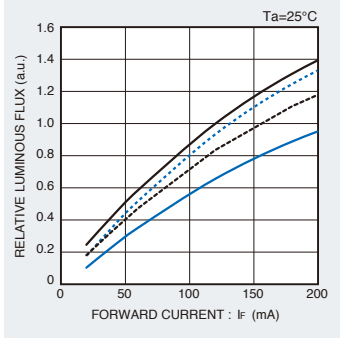
Derating



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

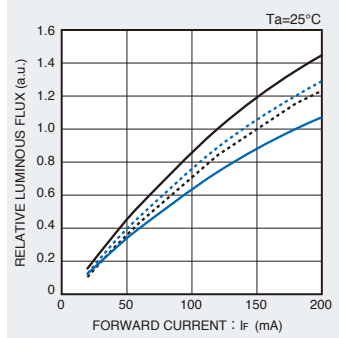
Luminous Flux-Forward Current (PSL0102 series)

[5000K]



- PSL0102WBEA
- PSL0102WBEB
- PSL0102WBEC
- PSL0102WBED

[3000K]



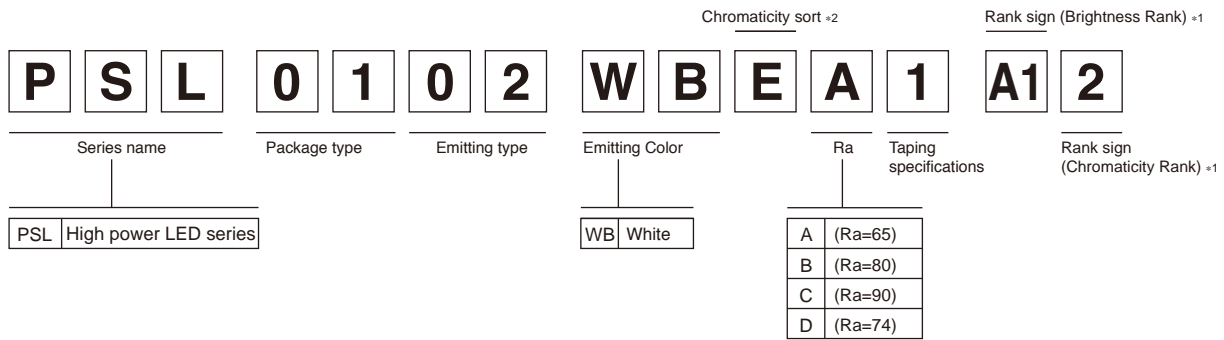
- PSL0102WBFA
- PSL0102WBFB
- PSL0102WBFC
- PSL0102WBFD

Rank Reference of Brightness

■ White (WB)

Package structure	Package size	Height (mm)	Luminou 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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