



SMLXA series

(PSML-S)

4022(1608)
 4.0×2.2mm(t=2.15mm)

Features

- High brightness side-view white LEDs
- High heat radiation

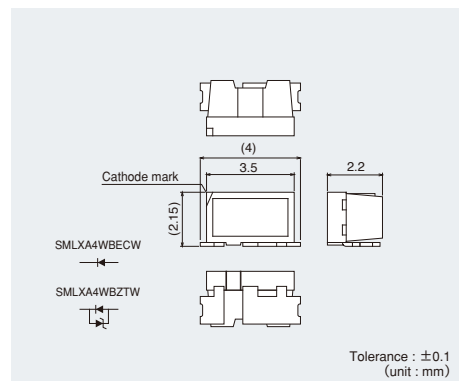
Color Type WB

Specifications

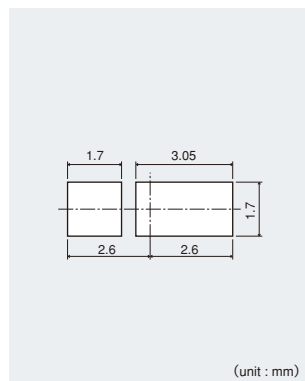
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)					
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf Typ.(V)	Reverse Current Ir If(mA)	Max. (μA)	Vr(V)	Chromaticity (x, y)	Luminous Intensity Iv Min. (mcd) Typ. (mcd) If(mA)
<input type="checkbox"/> SMLXA4WBECW(A)	InGaN	White	195	50	100*	5	-40 to +100	-40 to +100	3.2	20	10	5	(0.30, 0.28)	1,100 2,100 20
<input type="checkbox"/> SMLXA4WBZTW			114	30		-					-	-	(0.31, 0.31)	900 1,800

※ Duty 1/10, 1kHz

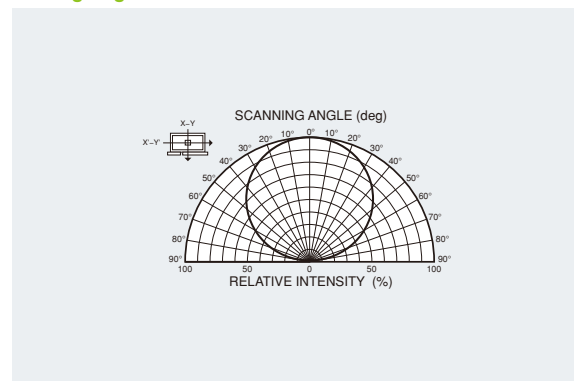
Dimensions



Recommended Solder Pattern

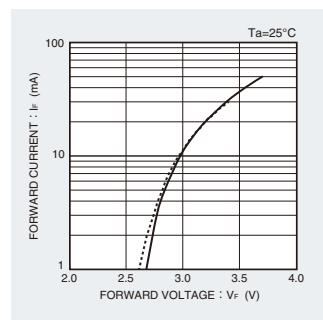


Viewing Angle



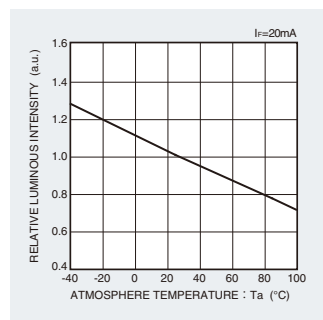
Electrical Characteristics Curves

Forward Current-Forward Voltage



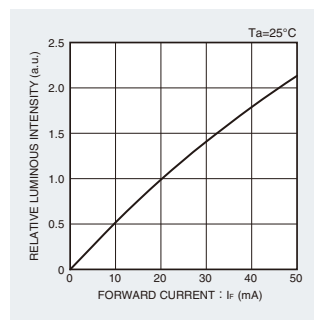
■ ☐ SMLXA4WBECW(A)
☒ SMLXA4WBZTW

Luminous Intensity-Atmosphere Temperature



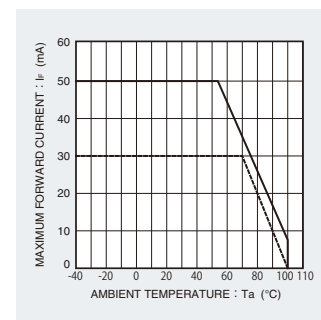
■ ☐ SMLXA4WBECW(A)
☒ SMLXA4WBZTW

Luminous Intensity-Forward Current



■ ☐ SMLXA4WBECW(A)
☒ SMLXA4WBZTW

Derating



■ ☐ SMLXA4WBECW(A)
☒ SMLXA4WBZTW

Rank Reference of Brightness

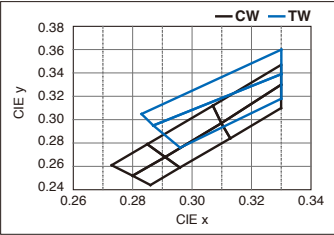
White (WB)

Package structure	Package size	Height (mm)	Luminous intensity I _f (mA)	S1	S2	T1	T2	U1	U2	V1	V2	W1	W2	X1	X2	Y1	Y2	Z1	Z2
Side View (Reflector)	4022	2.15	20	90 to	110 to	140 to	180 to	220 to	280 to	360 to	450 to	560 to	710 to	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600
SMLXA4WBECW(A) *																			

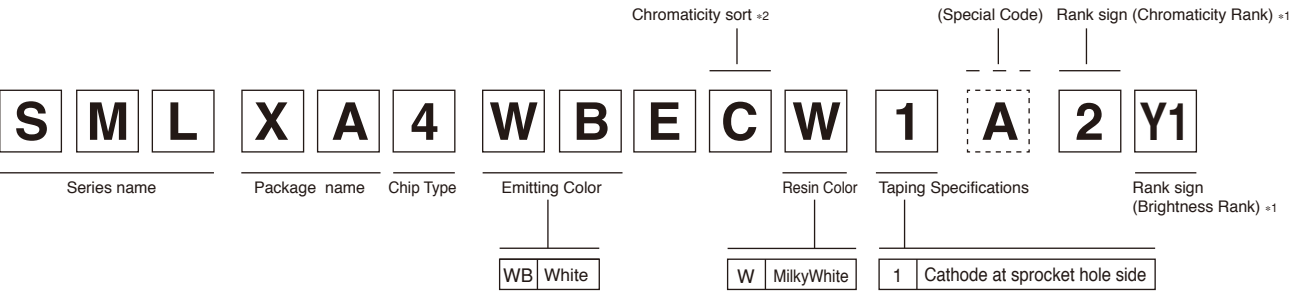
* Please note that the brightness of some products may fall between ranks (half rank).

Package structure	Package size	Height (mm)	Luminous intensity I _f (mA)	S	T	U	V	W	X	Y	Z
Side View (Reflector)	4022	2.15	20	90 to	140 to	220 to	360 to	560 to	710 to	1400 to	2200 to 3600
SMLXA4WBZTW											

Chromaticity Rank



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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Examples of application circuits, circuit constants and any other information contained herein illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.

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