



SMLXA4WBETW

(PSML-S)

4022(1608) 4.0×2.2mm(t=2.15mm)

Features

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





Specifications

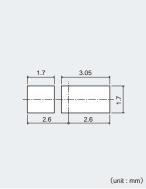
Part N		Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25°C)								
	Part No.			Power		Peak Forward	Reverse			Forward \	Voltage VF	Reverse Current IR		Chromaticity	Luminous Intensity Iv			nsity Iv
	Tare 140.			Dissipation PD(mW)	Current IF(mA)	Current IFP(mA)	Voltage VR(V)	Temperature Topr(°C)	Temperature Tstg(°C)	Typ.(V)	IF(mA)	Max. (μA)	VR(V)		IF(mA)	Min. (mcd)	Typ. (mcd)	IF(mA)
	□SMLXA4WBETW	InGaN	White	108	30	100*	-	-40 to +85	-40 to +100	3.1	20	10	5	(0.31, 0.31)	20	520	840	20

% Duty1/10, 1kHz

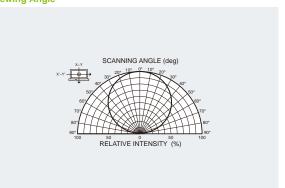
Dimensions

Cathode mark 3.5 Cathode mark 3.5 Tolerance: ±0.1 (unit:mm)

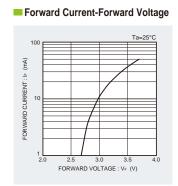
Recommended Solder Pattern

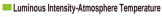


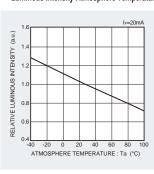
Viewing Angle



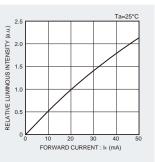
Electrical Characteristics Curves



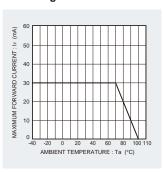




Luminous Intensity-Forward Current



Derating



■ □SMLXA4WBETW

■ □SMLXA4WBETW

N

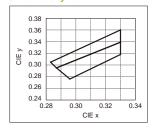
■ □SMLXA4WBETW

Rank Reference of Brightness

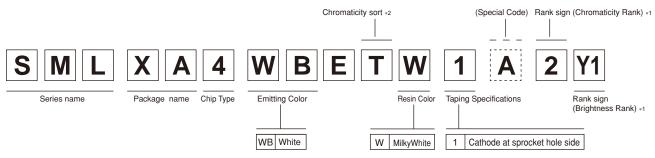
White (WB)

Package	Package	Height	Luminous	S	T	U	V	W	X	Y	Z
structure		(mm)	I _F (mA) (mcd)		140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600
Side View (Reflector)	4022	2.15	20						SMLXA4WBETW		

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 distributer if necessary.

Notes

- 1) The information contained herein is subject to change without notice.
- Before you use our Products, please contact our sales representative and verify the latest specifications:
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative: transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 11) ROHM has used reasonable care to ensur the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
- 12) Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting non-compliance with any applicable laws or regulations.
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