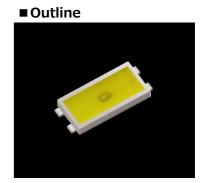


SMLK18WB/K28WB Series

Data Sheet

Features

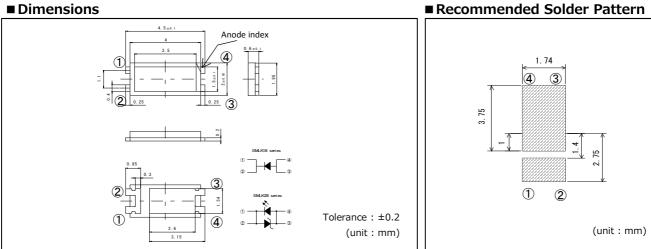
- High heat radiation "PSML2" series
- Low package by flat frame structure
- High Luminous Intensity



■ Size

4520 (1808)	Color Type
4.5×2.0mm (t=0.6mm)	

Dimensions



WB

Specifications

				Abso	olute Ma	ximum R	atings (Ta=25	°C)			Electr	ical and	d Optica	al Chara	acteristi	cs (Ta=	=25ºC)		
Part No.	Chip Structure		Power	Forward	Peak Forward			Storage Temp.	Forward \	Voltage V _F	Reverse	Current I _R	Chron	naticity	Lumino	ous Inte	nsity IV	Luminous I	Intensity fV
		Color	Dissipation	Current	Current	Voltage			Тур.	١ _F	Max.	V _R	(x,y)	I _F	Min.	Тур.	١ _F	Тур.	I _F
			P _D (mW)	I _F (mA)	I _{FP} (mA)	$V_{R}(V)$	T _{opr} (°C)	T _{stg} (°C)	(V)	(mA)	(µA)	(V)		(mA)	(cd)	(cd)	(mA)	(Im)	(mA)
SMLK18WBJAW		White (5000K)											(0.36, 0.36)		3.3	4.8		17	
SMLK18WBJBW		White (3000K)				F	5				10	5	(0.44, 0.40)		5.5	4.5		16	
SMLK18WBJCW	InGaN		675	150	230* ¹	5	-40~+100	-40~+100	3.9	90	10	5	(0.30, 0.28)	90		5.9	90	21	90
SMLK18WBJDW		White											(0.34, 0.34)	4.8	4.8	6.0	1	22	
SMLK28WBJCW						-	-				-	-	(0.30, 0.28)			5.9		21	

*1 : Duty 1/10, 1kHz

[Data Sheet]

Electrical Characteristics Curves

Reference

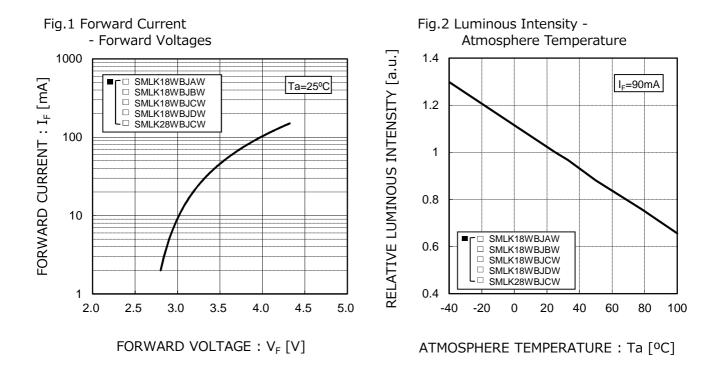
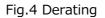
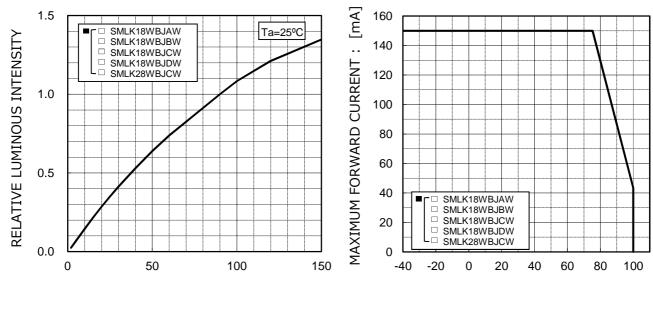


Fig.3 Luminous Intensity - Forward Current

FORWARD CURRENT : I_F [mA]



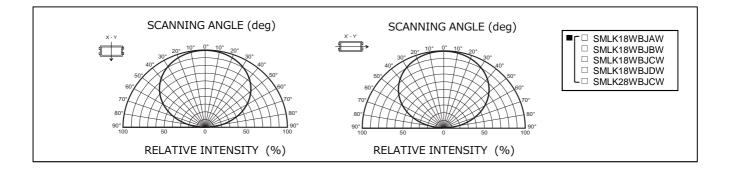


AMBIENT TEMPERATURE : Ta [°C]

■ Viewing Angle

[Data Sheet]

Reference

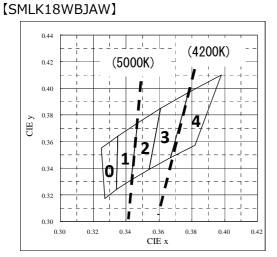


Rank Reference of Brightness*

*Measurement tolerance:±10%

白(WB)色	ļ.														(Ta=25⁰C, I	_F =90mA)
ランク	С	D	E	F	G	Н	J	K	L	М	Ν	Р	Q	R	S	Т	U
光度 (cd)	2.2~2.8	2.8~ 3.3	3.3~4.0	4.0~4.8	$4.8\sim\!5.8$	5.8~7.0	7.0~8.5	8.5~10.2	10.2~12.3	12.3~14.8	14.8~19	19~21.8	21.8~24.5	24.5~27.2	27.2~29.3	29.3~32.6	32.6~35.4
SMLK18WBJAW																	
SMLK18WBJBW																	
SMLK18WBJCW																	
SMLK18WBJDW																	
SMLK28WBJCW																	

Chromaticity Diagram

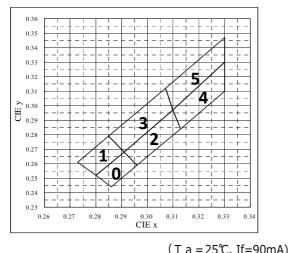


(T a = 25℃、If=90mA)

()	1	L	2	2	V. 1	3	2	1
Х	У	Х	У	Х	У	Х	У	Х	У
0.335	0.364	0.347	0.374	0.361	0.385	0.378	0.397	0.398	0.410
0.334	0.324	0.343	0.331	0.354	0.339	0.367	0.348	0.382	0.357
0.327	0.317	0.334	0.324	0.343	0.331	0.354	0.339	0.367	0.348
0.325	0.355	0.335	0.364	0.347	0.374	0.361	0.385	0.378	0.397

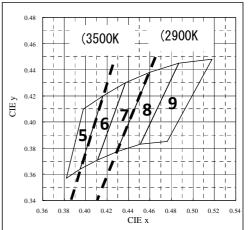
Measurement tolerance : ±0.01

[SMLK18WBJCW], [SMLK28WBJCW]



	(1 a - 25 C, 11 - 5011A)												
()		1	2	2		3	2	1	L ,	5		
Х	у	Х	у	Х	у	Х	у	Х	у	Х	у		
0.286	0.244	0.280	0.252	0.296	0.259	0.291	0.268	0.313	0.284	0.310	0.297		
0.280	0.252	0.273	0.261	0.291	0.268	0.285	0.279	0.310	0.297	0.307	0.312		
0.291	0.268	0.285	0.279	0.310	0.297	0.307	0.312	0.330	0.330	0.330	0.347		
0.296	0.259	0.291	0.268	0.313	0.284	0.310	0.297	0.330	0.310	0.330	0.330		
Meas	Measurement tolerance : ±0.01												

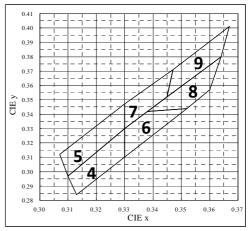
[SMLK18WBJBW]



	(Ta=25℃、If=90mA)										
ш,	5	6	5		7	8	3	C.	9		
Х	У	Х	У	Х	У	Х	У	Х	У		
0.416	0.420	0.437	0.430	0.460	0.438	0.487	0.445	0.518	0.448		
0.395	0.364	0.411	0.371	0.429	0.377	0.451	0.383	0.476	0.385		
0.382	0.357	0.395	0.364	0.411	0.371	0.429	0.377	0.451	0.383		
0.398	0.410	0.416	0.420	0.437	0.430	0.460	0.438	0.487	0.445		
Mon		aont i	tolors			1					

Measurement tolerance : ± 0.01

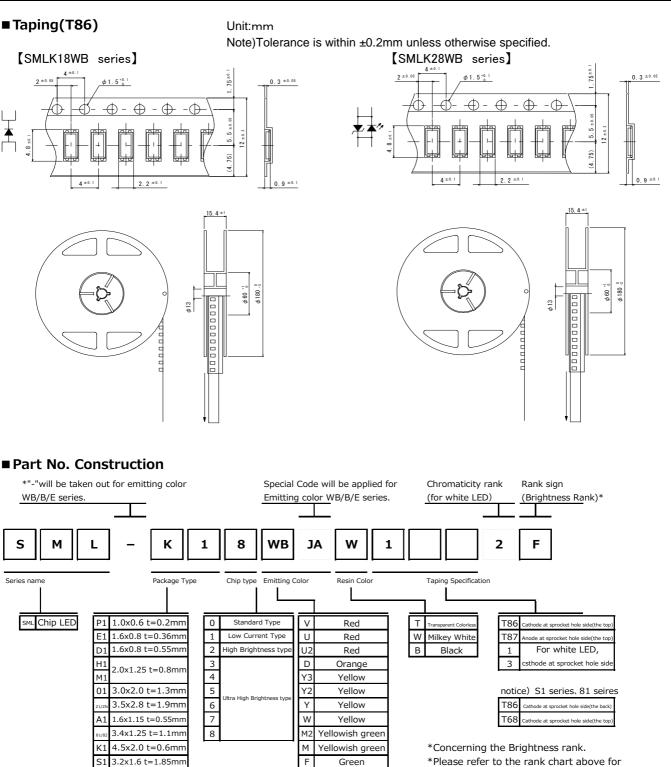
[SMLK18WBJDW]



(T a =25℃, If=90mA)

4	1	Ξ,	5	6	5		7	2	3	Ċ.	9
Х	Х	Х	У	Х	У	Х	У	Х	У	Х	У
0.313	0.284	0.310	0.297	0.330	0.310	0.330	0.330	0.352	0.344	0.345	0.352
0.310	0.297	0.307	0.312	0.330	0.330	0.330	0.347	0.338	0.342	0.347	0.371
0.330	0.330	0.330	0.347	0.338	0.342	0.347	0.371	0.364	0.380	0.367	0.401
0.330	0.310	0.330	0.330	0.352	0.344	0.345	0.352	0.360	0.357	0.364	0.380
Meas	Measurement tolerance : ±0.01										

4/9



Packing Specification

SCM Chip LED

P2

52

P.34

VN

1.0x1.0 t=0.2mm

1.3x1.5 t=0.6mm

1.0x1.0 t=0.2mm

1.5x1.0 t=0.2mm

3.5x2.8 t=0.6mm

01 3.0x1.5 t=2.2mm

S

ROHM LED products are being shipped with desiccant (silica gel) included 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.

Ρ

Е

В

WB

Т

Green

Green

Blue

White

Phototransistor

Red/Green/Blue

luminous intensity classification.

be a representative part name.

is needed.

General products are free of ranks.

Please contact sales if rank appointment

*Part name is individual for each rank.

*When shipped as sample, the part name will

[Data Sheet]

Precaution (Surface Mount Device)

1. Storage

If the product is heated during the reflow under the condition of hygroscopic state,

it may vaporize and expand which will influence the performance of the product.

Therefore, the package is waterproof. Please use the product following the conditions:

Using Conditions

Classification	Temperature	Humidity	Expiration Date	Remark
①Before using	5~30℃	30~70%RH	Within 1 year from Receiving	Storage with waterproof package
②After opening package	5~30℃	Below 70%RH	Within 72h	Please storing in the airtight container with our desiccant (silica gel)

Baking

Bake the product in case of below:

(1) The expiration date is passed.

(2) The color of indicator (silica gel) turned from blue to colorless or from green to pink. (Even if the product is within the expiration date.)

Baking Conditions

Tempera						
60±3°	60±3℃ 40~48h Below 20%RH					
Remark	•Reel and so please	ducts in reel. embossed tape try not to apply end bake once.	are easy to be deformed when baking, stress on it.			

2. Application Methods

2 – 1. Precaution for Drive System and Off Mode

Design the circuit without the electric load exceeding the ABSOLUTE MAXIMUM RATING that applies on the products. If drive by constant voltage, it may cause current deviation of the LED and result in deviation of luminous intensity, so we recommend to drive by constant current.

(Deviation of VF Value will cause deviation of current in LED.) Furthermore, for off mode, please do not apply voltage neither forward nor reverse. Especially, for the products with the Ag-paste used in the die bonding, there's high possibility to cause electro migration and result in function failure.

2 - 2. Derating

The Derating Characteristics are based on the lifetime of luminous intensity and assumption of degradation & color change of sealing resin or reflector. About its reliability,

please evaluate its using conditions and environment and use it after confirmed there is no problem. 2 – 3. Operation Life Span

There's possibility for intensity of light drop according to working conditions and environments (applied current, surrounding temperature and humidity, corrosive gases), please call our Sales staffs for inquiries about the concerned application below.

1)Longtime intensity of light life

②On mode all the time

2 – 4. Applied Stress on Product

The top of the LED is very soft, which the silicon resin is used as sealing resin.

Therefore, please pay attention to the overstress on it which may influence its reliability.

2 - 5. Usage The Product is LED. We are not responsible for the usage as the diode such as Protection Chip, Rectifier, Switching and so on.

3. Others

3 – 1. Surrounding Gas

Notice that if it is stored under the condition of acid gas (chlorine gas, sulfured gas) or alkali gas (ammonia), it may result in low soldering ability (caused by the change in quality of the plating surface) or optical characteristics changes (light intensity, chrominance) and change in quality of cause die bonding (Ag-paste) materials. All of the above will function failure of the products.

Therefore, please pay attention to the storage environment for mounted product (concern the generated gas of the surrounding parts of the products and the atmospheric environment).

<u>3 – 2. Electrostatic Damage</u>

The product is part of semiconductor and electrostatic sensitive, there's high possibility to be damaged by the electrostatic discharge. Please take appropriate measures to avoid the static electricity from human body and earthing of production equipment. The resistance values of electrostatic discharge (actual values) vary with products, therefore, please call our Sales staffs for inquiries.

3 – 3. Electromagnetic Wave

Applications with strong electromagnetic wave such as, IH cooker, will influence the reliability of LED, therefore please evaluate before using it.

4. Mounting

<u>4 – 1. Soldering</u>

•No resin hardening agent such as filler is used in the sealing resin of the product. Therefore, resin expansion and moisture absorption at humidity will cause heat stress during soldering process and finally has bad influence on the product's reliability.

•The product is not guaranteed for flow soldering.

•Do not expose the product in the environment of high temperature (over 100°C) or rapid temperature shift (within 3°C/sec. of temperature gradient) during the flow soldering of surrounding parts. In case of carrying out flow soldering of surrounding parts without recommended conditions, please contact us for inquiries.

•Please set appropriate reflow temperature based on our product usage conditions and specification.

•The max for reflowing is 2 times, please finish the second reflow soldering and flow soldering with other parts within the usage limitation after open the moistureproof package.

•Compare with N2 reflow, during air reflow, because of the heat and surrounding conditions, it may cause the discoloration of the resin.

•For our product that has no solder resist, because of its solder amount and soldering conditions, one of its specific characteristics is that solder will penetrate into LED. Thus, there's high possibility that will influence its reliability.Therefore, please be informed, concerning it before using it.

4 – 2. Automatic Mounting

4 - 2 - 1 . Silicon Resin Sealing Product

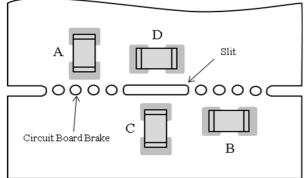
The sealing resin of LED is very soft, so please select adsorption nozzle that would not apply stress directly on the sealing section.

4-2-2. Mini Package (Smaller than 1608 size)

•Vibration may result in low mounting rate since it will cause the static electricity of product and adhere to top cover tape. Therefore, the magnet should be set on parts feeder cassette of the mounter to control the product stabilization. In addition, it is recommended to set ionizer to prevent electrostatic charge.

4 – 3. Mounting Location

The stress like bending stress of circuit board dividing after mounting, may cause LED package crack or damage of LED internal junction, therefore, please concern the mounting direction and position to avoid bending or screwing with great stress of the circuit board.



Stress strength according to he mounting position: A > B > C > D

4-4. Mechanical Stress after Mounting

The mechanical stress may damage the LED after Circuit Mounting,

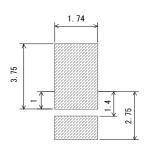
so please pay attention to the touch on product.

4 – 5. Soldering Pattern for Recommendation

We recommend the soldering pattern that shows on the right.

It will be different according to mounting situation of circuit board,

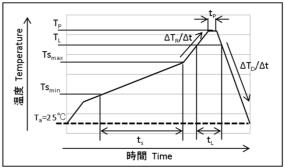
therefore, please concern before designing.



4 – 6. Reflow Profile

For reflow profile, please refer to the conditions below:(※) ■ Meaning of marks, Conditions

	of marks, conditions	
Mark	Meanings	Conditions
Ts _{max}	Maximum of pre-heating temperature	180°C
Ts _{min}	Minimum of pre-heating temperature	140°C
t _s	Time from Tsmin to Tsmax	Over 60sec.
Τ _L	Reference temperature	230~260℃
tL	Retention time for TL	Within 40sec.
Τ _Ρ	Peak temperature	260℃(Max)
t _P	Time for peak temperature	Within 10sec.
ΔT _R /Δt	Temperature rising rate	Under 3℃/sec.
ΔT _D /Δt	Temperature decreasing rate	Over -3℃/sec.



*Above conditions are for reference. Therefore, evaluate by customer's own circuit boards and reflow furnaces before using, because stress from circuit boards and temperature variations of reflow furnaces vary by customer's own conditions.

4 – 7. Attention Points in Soldering Operation

This product was developed as a surface mount LED especially suitable for reflow soldering. So reflow soldering is recommended. In case of implementing manual soldering,

please take care of following points.

①SOLDER USED

Sn-Cu, Sn-Ag-Cu, Sn-Ag-Bi-Cu

2 HAND SOLDERING CONDITION

LED products do not contain reinforcement material such as a glass fillers.

So thermal stress by soldering greatly influence its reliability.

Please keep following points for manual soldering.

	ITEM	RECOMMENDED CONDITION	I	
a)	Heating method	Condition) Temp. of iron top less than 325℃ within 3 sec. Heating on PCB pattern, not direct to the LED. (Fig-1)	Fig-1	SOLDERING IRON
b)		Please handle after the part temp. goes down to room temp.		

SOLDERING LAND

4 – 8. Cleaning after Soldering

Please follow the conditions below if the cleaning is necessary after soldering.

Solvent	We recommend to use alcohols solvent such as, isopropyl alcohols	
Temperature	Under 30°C within 3 minutes	
Ultrasonic Cleaning	15W/Below 1 liter (capacity of tank)	
Drying	Under 100℃ within 3 minutes	

 The information contained herein is subject to change without notice. Before you use our Products, please contact our sales representative and tions : Although ROHM is continuously working to improve product reliabilit ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from fail measures such as complying with the derating characteristics, imple fire prevention designs, and utilizing backups and fail-safe procedure responsibility for any damages arising out of the use of our Poducts beyor ROHM. Examples of application circuits, circuit constants and any other informat provided only to illustrate the standard usage and operations of the F conditions must be taken into account when designing circuits for mass p The technical information specified herein is intended only to show the examples of application circuits for the Products. ROHM does not grant y any license to use or exercise intellectual property or other rights held parties. ROHM shall have no responsibility whatsoever for any dispute such technical information. The Products are intended for use in general electronic equipment (i.e. A cation, consumer systems, gaming/entertainment sets) as well as the this document. The Products specified in this document are not designed to be radiation For use of our Products in applications requiring a high degree of r below), please contact and consult with a ROHM representative : transmissior Do not use our Products in applications requiring extremely high reliat equipment, nuclear power control systems, and submarine repeaters. ROHM shall have no responsibility for any damages or injury arising fir the recommended usage conditions and specifications contained herein is shall have no responsibility for any damages arising from any inaccur information. Please use the Products in accordance with any app	Notes		
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SMLK28WBJCW - Web Page

Distribution Inventory

Part Number	SMLK28WBJCW
Package	SMLK28
Unit Quantity	4000
Minimum Package Quantity	4000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes

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