

SMLK1 / SMLK2 series

PSML2

Features

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

 Color Type WB

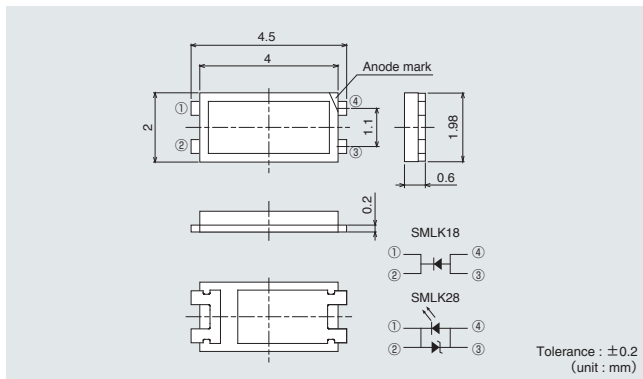
SMLK18/SMLK28(PSML2)

Specifications

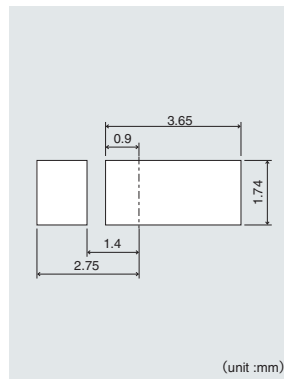
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)										
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage V _f		Reverse Current I _r		Chromaticity (x, y)		Luminous Intensity I _v		Luminous Flux Φ _v		
									Typ.(V)	If(mA)	Max. (μA)	Vr(V)		If(mA)	Min. (cd)	Typ. (cd)	If(mA)	Typ. (lm)	If(mA)
<input type="checkbox"/> SMLK18WBJAW		White (5000K)											(0.345, 0.351)		3.3	4.8		(17)	
<input type="checkbox"/> SMLK18WBJBW		White (3000K)				5					10	5	(0.44, 0.40)			4.5		(16)	
<input type="checkbox"/> SMLK18WBJCW	InGaN		675	150	230 [※]		-40 to +100	-40 to +100	3.9	90			(0.30, 0.28)	90		5.9	90	(21)	90
<input type="checkbox"/> SMLK18WBJDW		White											(0.34, 0.34)		4.8	6.0		(22)	
<input type="checkbox"/> SMLK28WBJCW						-					-	-	(0.30, 0.28)			5.9		(21)	

※Duty1/10<10ms ():Reference

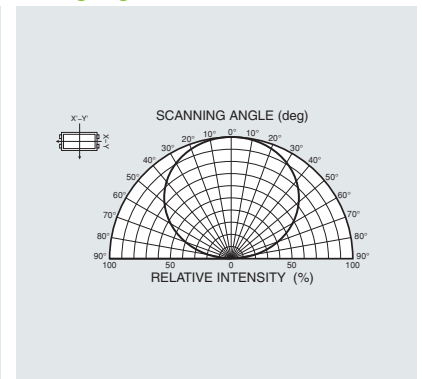
Dimensions



Recommended Solder Pattern

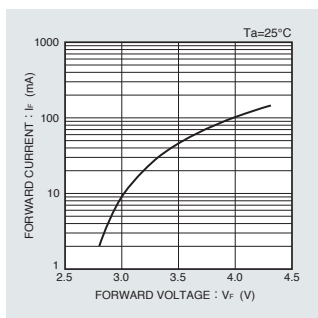


Viewing Angle



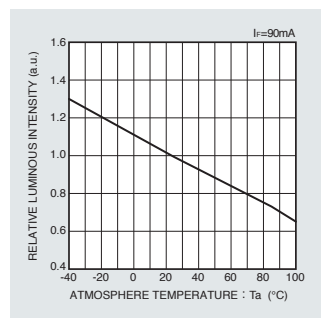
Electrical Characteristics Curves

Forward Current-Forward Voltage



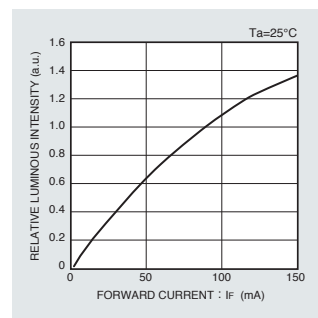
- ☐ SMLK18WBJAW
- ☐ SMLK18WBJBW
- ☐ SMLK18WBJCW
- ☐ SMLK18WBJDW
- ☐ SMLK28WBJCW

Luminous Intensity-Atmosphere Temperature



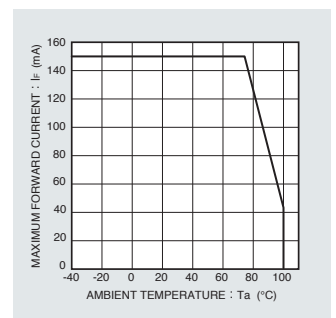
- ☐ SMLK18WBJAW
- ☐ SMLK18WBJBW
- ☐ SMLK18WBJCW
- ☐ SMLK18WBJDW
- ☐ SMLK28WBJCW

Luminous Intensity-Forward Current



- ☐ SMLK18WBJAW
- ☐ SMLK18WBJBW
- ☐ SMLK18WBJCW
- ☐ SMLK18WBJDW
- ☐ SMLK28WBJCW

Derating



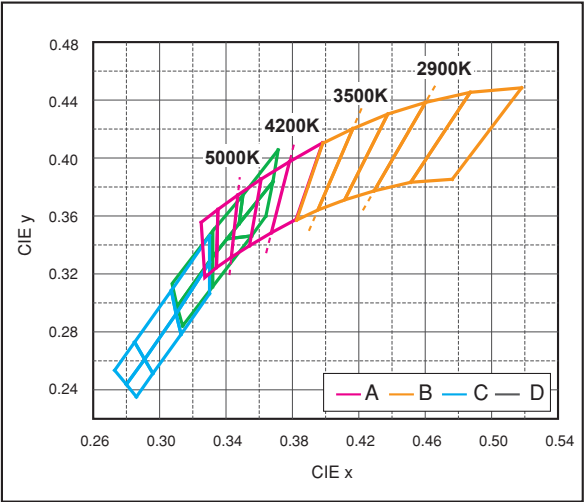
- ☐ SMLK18WBJAW
- ☐ SMLK18WBJBW
- ☐ SMLK18WBJCW
- ☐ SMLK18WBJDW
- ☐ SMLK28WBJCW

Rank Reference of Brightness

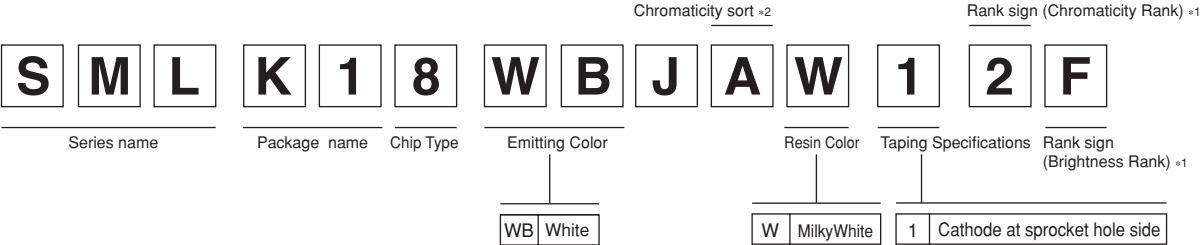
White (WB)

Package structure	Package size	Height (mm)	Luminous intensity I _F (mA)	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
				2.2 to 2.8	2.8 to 3.3	3.3 to 4.0	4.0 to 4.8	4.8 to 5.8	5.8 to 7.0	7.0 to 8.5	8.5 to 10.2	10.2 to 12.3	12.3 to 14.8	14.8 to 19	19 to 21.8	21.8 to 24.5	24.5 to 27.2	27.2 to 29.3	29.3 to 32.6	32.6 to 35.4
PSML2	4520	0.6	90				SMLK18WBJAW													
							SMLK18WBJBW													
								SMLK18WBJCW												
								SMLK18WBJDW												
								SMLK28WBJCW												

色度分類図



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.

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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