

SMLK19 series

PSML2

4520(1808) 4.5×2.0mm(t=0.6mm)

3.65

Features

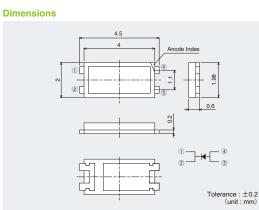
·High heat radiation package from ROHM original flat flame structure. ·Low current LED type. High Reliability from high heat radiation.

Color Type WB

Specifications

				Absolu	ute Maxim	um Ratin	gs (Ta=25℃)				ectrical and Optic						
Part No.	Chip Structure	Emitting Color	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 V Typ.(V)	/oltage VF IF(mA)	Chromaticity Coor (x, y)	dinates					Flux Φv IF(mA)
SMLK19WBECW		White									(0.30, 0.28)			2000		(5)	
SMLK19WBEDW	InGaN	white	220	50	200.		-40 to +100	-40 to +100	2.0	20	(0.34, 0.34)	20	1100	2000	00	(5)	20
SMLK19WBEAW	on SiC	High color rendering index (5000K)	220	50	200	-	-40 10 +100	-40 10 +100	3.2	20	(0.345, 0.351)	20	1100	1800		(4.5)	20
SMLK19WBEBW		High color rendering index (3000K)									(0.444, 0.406)			1400		(4.5)	

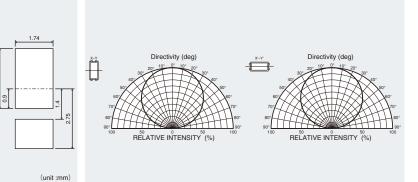
**Duty1/10≦10ms (): Reference



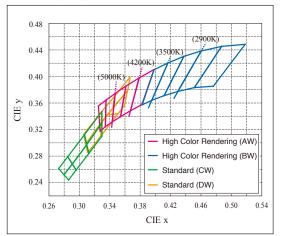
Recommended Solder Pattern Viewing Angle

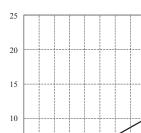
IV-Øv

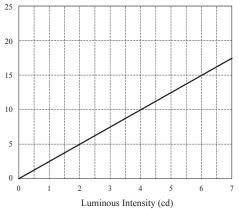
Luminous Flux (lm)



Chromaticity Diagram

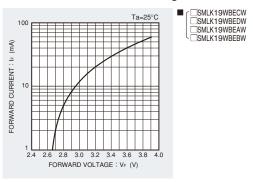




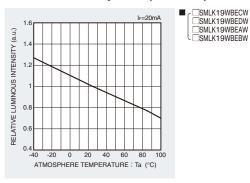


Electrical Characteristics Curves

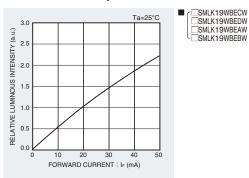
Forward Current-Forward Voltage



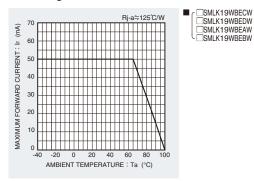
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating

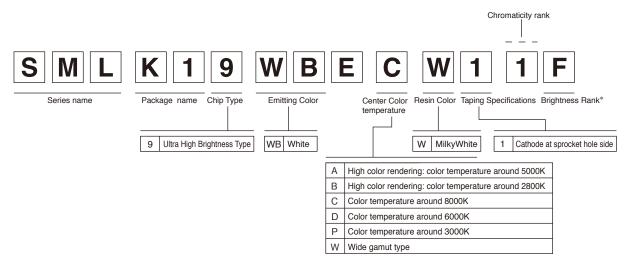


Rank Reference of Brightness

White (WB)

							(Ta=25°C,	IF=20mA)
	Package	Luminous	X1	X2	Y1	Y2	Z1	Z2
	size (mm)		900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600
				SM	LK19WBE	AW		
I Bala a surer	4500	0.0		SM	LK19WBE	BW		
High power	4520	0.6			SMLK19	WBECW		
					SMLK19	WBEDW		

Part No. Construction



Concerning the Brightness rank
Please refer to the rank chart above for luminous intensity 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.

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.

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The	Products specified in this document are not designed to be radiation tolerant.
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