

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

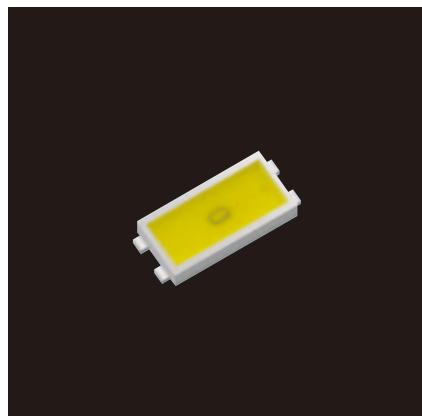


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SML-K19 series

PSML2

Features

- High luminous white LEDs
- Flat-frame high heat dissipation package

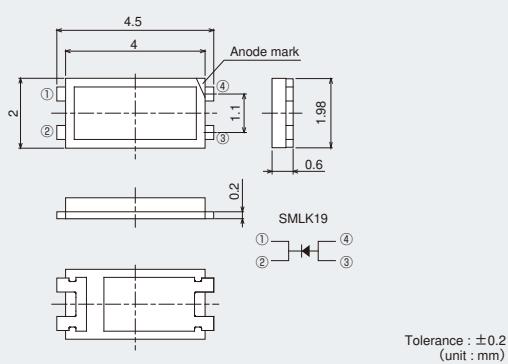
Color Type WB

Specifications

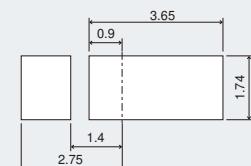
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)							Electrical and Optical Characteristics (Ta=25°C)						
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage Vf Typ.(V)	Reverse Current If Max. (μA)	Vr(V)	Chromaticity (x, y)	Luminous Intensity Iv Min. (mcd)	Iv Typ. (mcd)	Luminous Flux Φv If(mA)	
□SMLK19WBECW	InGaN on SiC	White										(0.30, 0.28)				
□SMLK19WBEDW		White (5000K)	190	50	100 ^{**}	5	-40 to +85	-40 to +100	3.2	20	10	(0.34, 0.34)	20	1100	2000 (5)	
□SMLK19BEBAW		White (3000K)										(0.345, 0.351)	20	1400	20 (4.5)	
□SMLK19BEBBW												(0.444, 0.406)	20	1400	20	

※ Duty1/10, 10ms Max. ():Reference

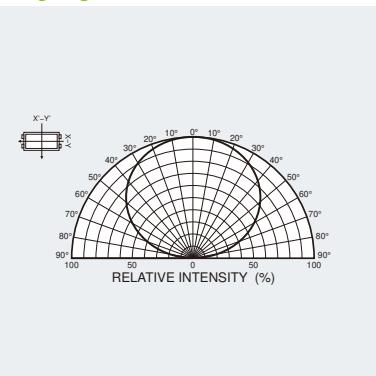
Dimensions



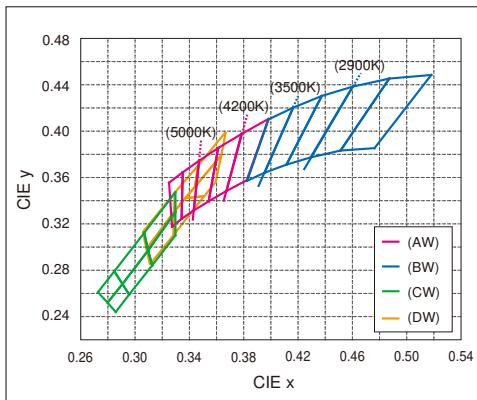
Recommended Solder Pattern



Viewing Angle

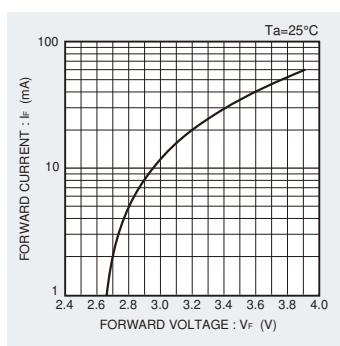


Chromaticity Diagram

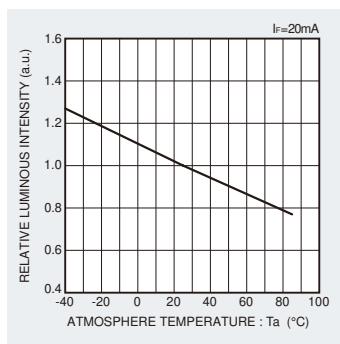


Electrical Characteristics Curves

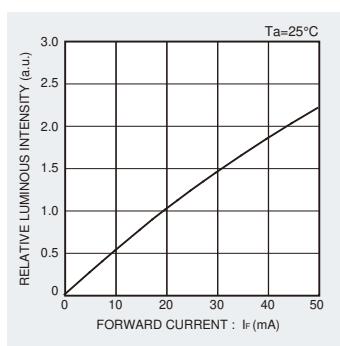
Forward Current-Forward Voltage



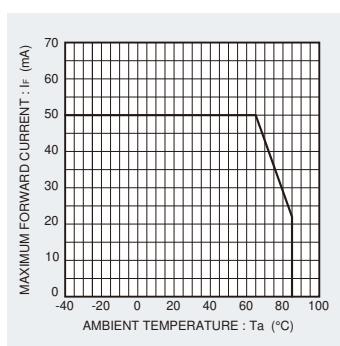
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Deratings



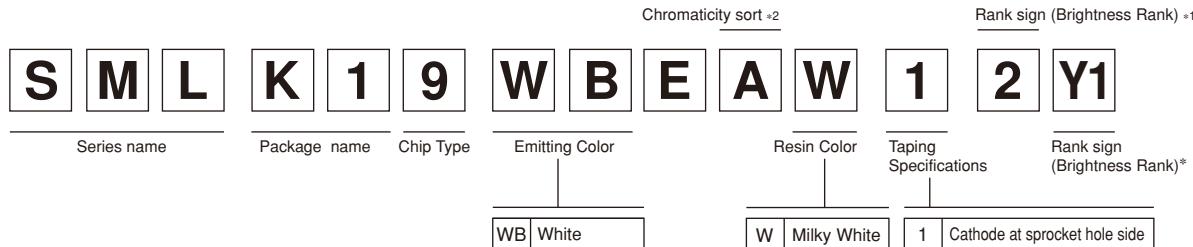
Rank Reference of Brightness

White (WB)

Package structure	Package size	Height (mm)	Luminous Intensity I _r (mA)	Chromaticity sort ≈2															
				S1	S2	T1	T2	U1	U2	V1	V2	W1	W2	X1	X2	Y1	Y2	Z1	Z2
PSML2	4520	0.6	90	90 to 110	110 to 140	140 to 180	180 to 220	220 to 280	280 to 360	360 to 450	450 to 560	560 to 710	710 to	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600
																SMLK19WBECW SMLK19WBEDW SMLK19WBFAW SMLK19WBFBW			

*Brightness on specification sheet include tolerance of within $\pm 10\%$.

Part No. Construction



* 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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