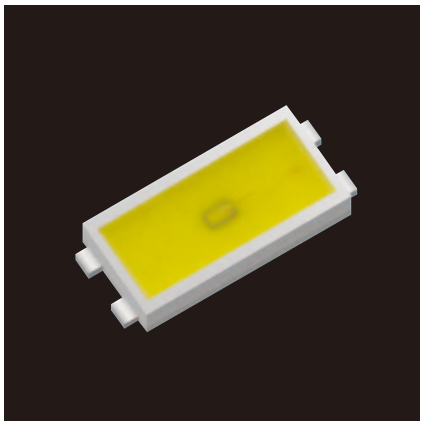


SMLK19 series

PSML2

4520(1808)
4.5×2.0mm(t=0.6mm)

Features

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

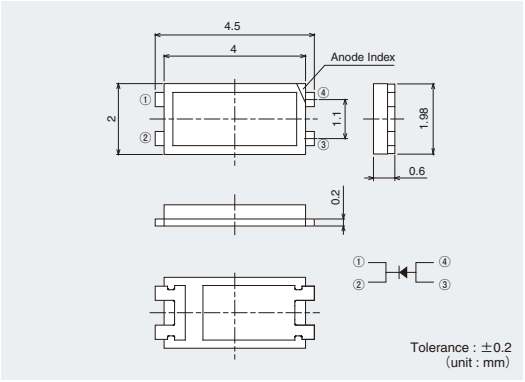
Color Type WB

Specifications

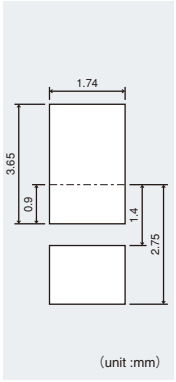
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25℃)						Electrical and Optical Characteristics (Ta=25℃)							
			Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(℃)	Storage Temperature Tstg(℃)	Forward Voltage VF Typ.(V)	IF(mA)	Chromaticity Coordinates (x, y)	IF(mA)	Luminous Intensity Iv Min.(mcd)	Typ.(mcd)	IF(mA)	Luminous Flux Φv Typ.(lm)	IF(mA)
☐SMLK19WBECW	InGaN on SiC	White	220	50	200*	-	-40 to +100	-40 to +100	3.2	20	(0.30, 0.28)	20	1100	2000	20	(5)	20
☐SMLK19WBEDW											(0.34, 0.34)						
☐SMLK19WBEAW		High color rendering index (5000K)									(0.345, 0.351)			1800		(4.5)	
☐SMLK19WBEBW		High color rendering index (3000K)									(0.444, 0.406)			1400			

※Duty1/10≦10ms ( ): Reference

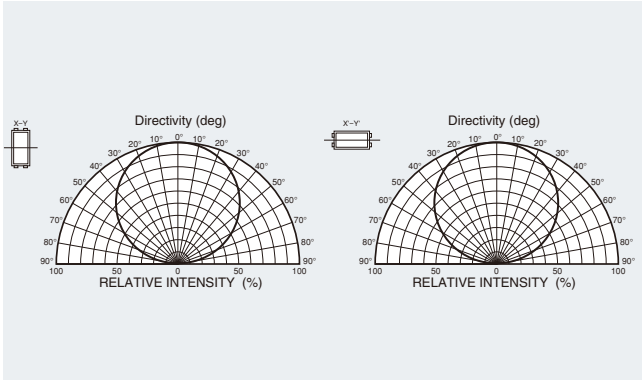
Dimensions



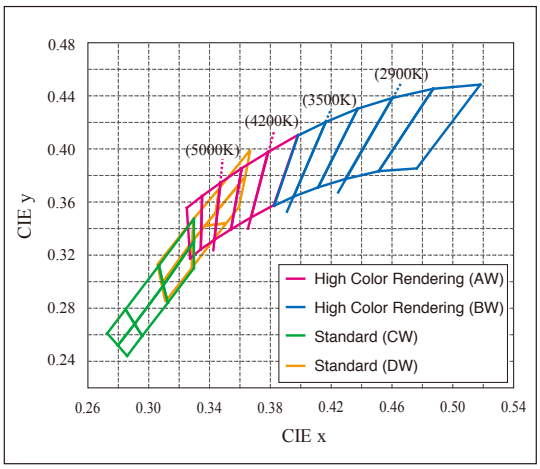
Recommended Solder Pattern



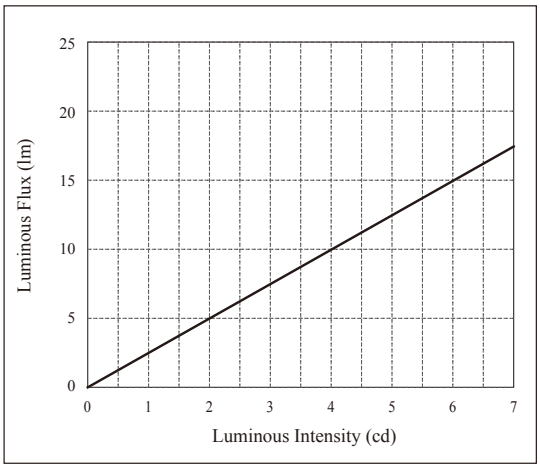
Viewing Angle



Chromaticity Diagram



IV-Øv



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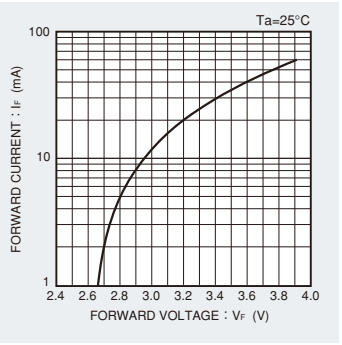
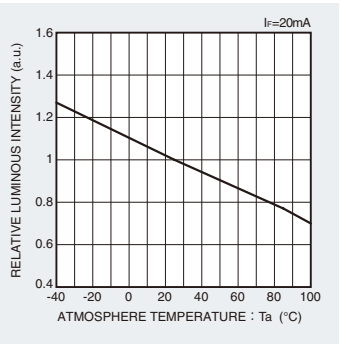
Electrical Characteristics Curves

Forward Current-Forward Voltage



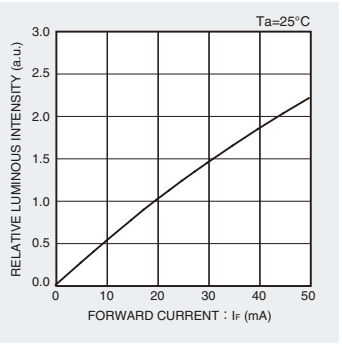
■ SMLK19WBECW
SMLK19WBEDW
SMLK19WBEAW
SMLK19WBEBW

Luminous Intensity-Atmosphere Temperature



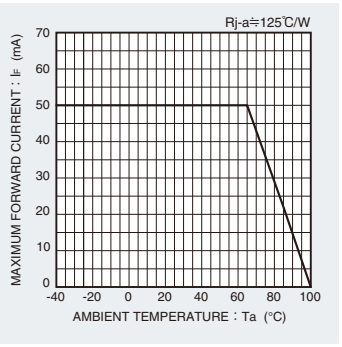
■ SMLK19WBECW
SMLK19WBEDW
SMLK19WBEAW
SMLK19WBEBW

Luminous Intensity-Forward Current



■ SMLK19WBECW
SMLK19WBEDW
SMLK19WBEAW
SMLK19WBEBW

Derating



■ SMLK19WBECW
SMLK19WBEDW
SMLK19WBEAW
SMLK19WBEBW

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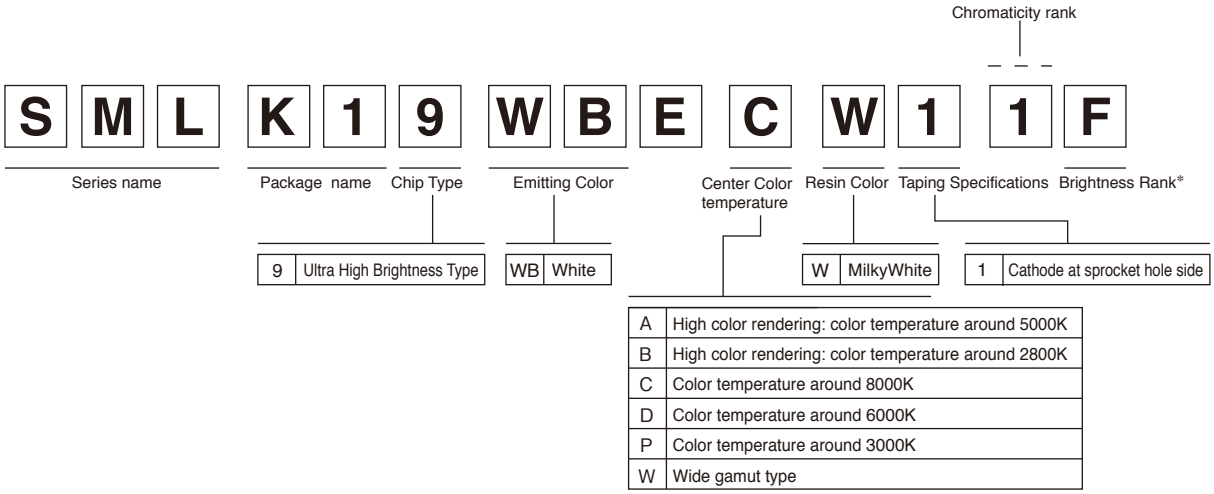
Rank Reference of Brightness

White (WB)

(Ta=25°C, IF=20mA)

	Package size (mm)	Luminous Intensity (mcd) / Height(mm)	X1	X2	Y1	Y2	Z1	Z2
			900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600
High power	4520	0.6		SMLK19WBEAW				
				SMLK19WBEBW				
				SMLK19WBECW				
				SMLK19WBEDW				

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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