



# SML-K19 series

#### Features

·High luminousity white LEDs

·Flat-frame high heat disspation package

Color Type

#### **Specifications**

				Absolute	Maximum	Ratings	(Ta=25℃	)			E	lectrica	I and Optical Cha	racteris	tics (Ta	a=25°C	C)		
Part No.	Chip	Emitting	Power	Forward	Peak Forward	Reverse	Operating	Storage	Forward \	/oltage VF	Reverse (	Current IR	Chromaticit	у	Lumino	ous Inte	nsity Iv	Luminous	Flux Φv
	Structure	Color	Dissipation PD(mW)	Current IF(mA)	Current IFP(mA)	Voltage VR(V)	Topr(°C)	Tstg(°C)	Typ.(V)	IF(mA)	Max. (μA)	Vr(V)	(x, y)	lF(mA)	Min. (mcd)	Typ. (mcd)	IF(mA)	Typ. (lm)	IF(mA)
SMLK19WBECW		M/hito											(0.30, 0.28)			2000		(5)	
SMLK19WBEDW	InGaN	white	400	50	400*	-	10.1 05	40.1 400			10	_	(0.34, 0.34)		1100	2000		(5)	
SMLK19WBEAW	on SiC	White (5000K)	190	50	100	5	-40 to +85	-40 to +100	3.2	20	10	5	(0.345, 0.351)	20	1100	1400	20	(4.5)	20
SMLK19WBEBW		White (3000K)											(0.444, 0.406)			1400		(4.5)	

\*Duty1/10, 10ms Max. ():Reference



#### 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	Package	Height	Luminous	S1	S2	T1	T2	U1	U2	V1	V2	W1	W2	X1	X2	Y1	Y2	Z1	Z2
structure	size	(mm)	I <sub>F</sub> (mA)	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
																SMLK19	WBECW		
DOMIN	4500	0.6	00													SMLK19	WBEDW		
P SIVIL2	4520	0.6	90												SM	LK19WBB	AW		
															SM	K19WB	BW		

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 distributer if necessary.

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