

# SMLW36 series

Actual size  
 7950(3120)  
 7.9×5.0mm(t=1.1mm)

### Features

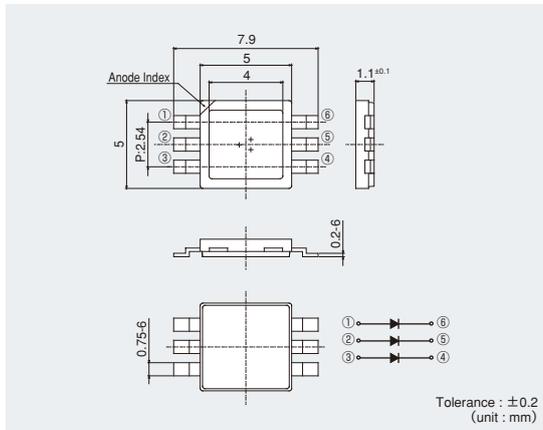
- High heat dissipation, high efficiency white LEDs

Color Type WB

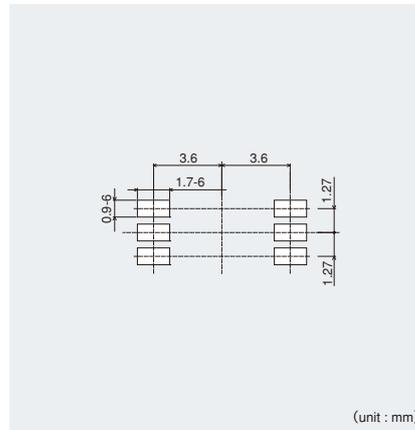
### Specifications

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 I <sub>F</sub> P(mA)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage V <sub>F</sub> Typ.(V)	IF(mA)	Chromaticity Coordinates (x, y)	IF(mA)	Luminous Intensity I <sub>v</sub>			Luminous Flux Φ <sub>v</sub>			
											Min. (mcd)	Typ. (mcd)	IF(mA)	Typ. (lm)	IF(mA)			
<input type="checkbox"/> SMLW36WBFAW	InGaN	High Color Rend. (5000K)	420	105	400	-40 to +85	-40 to +100	3.4	90	(0.36,0.36)	90	4.8	7.0	90	(25)	90		
<input type="checkbox"/> SMLW36WBFBW		High Color Rend. (3000K)													(20)			
<input type="checkbox"/> SMLW36WBFCW		White																
<input type="checkbox"/> SMLW36WBFDW																		

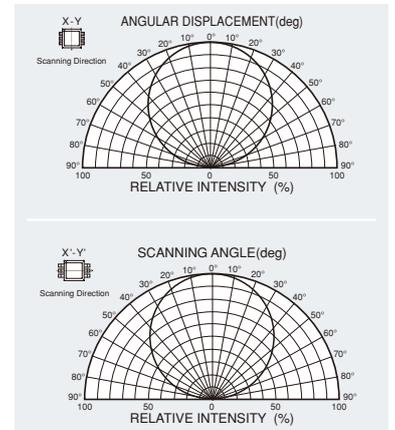
### Dimensions



### Recommended Solder Pattern

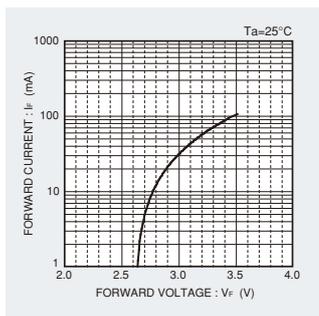


### Viewing Angle

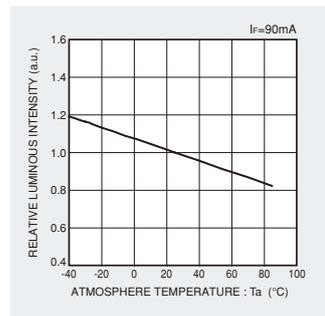


### Electrical Characteristics Curves

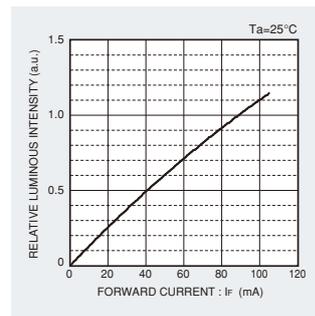
#### Forward Current-Forward Voltage



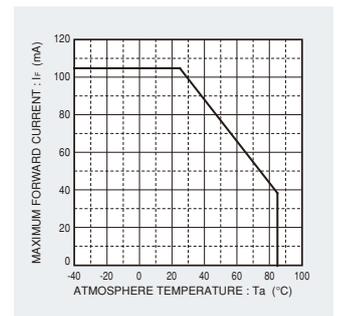
#### Luminous Intensity-Atmosphere Temperature



#### Luminous Intensity-Forward Current



#### Derating



- SMLW36WBFAW
- SMLW36WBFBW
- SMLW36WBFCW
- SMLW36WBFDW

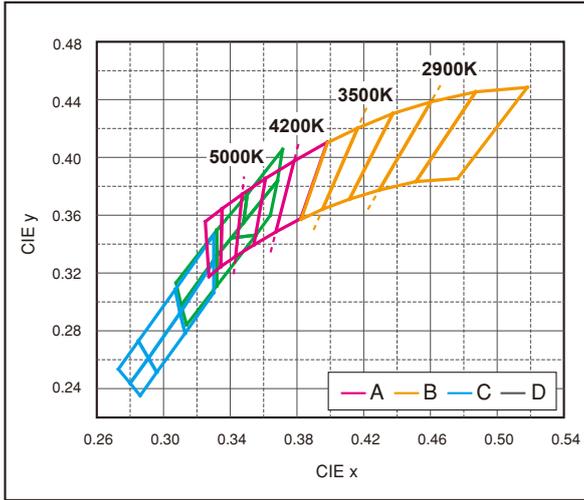
Rank Reference of Brightness

White (WB)

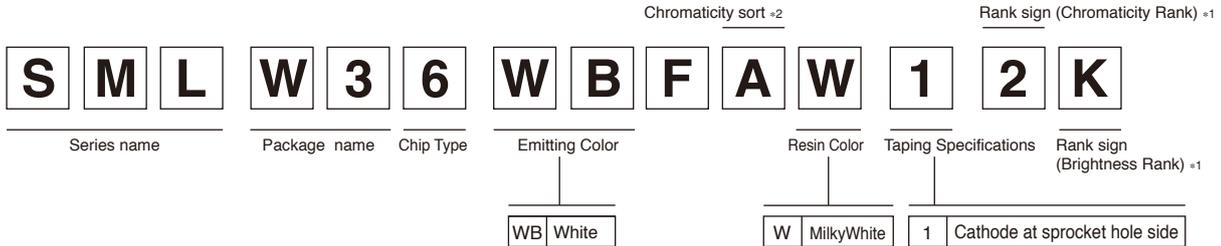
Package type	Package size (mm)	Height (mm)	Luminous intensity (cd)	Rank																
				C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
Chip LEDs with Reflector	7950	1.1	90	2.2 to 2.8	2.8 to 3.3	3.3 to 4.0	4.0 to 4.8	4.8 to 5.8	5.8 to 7.0	7.0 to 8.5	8.5 to 10.2	10.2 to 12.3	12.3 to 14.8	14.8 to 19	19 to 21.8	21.8 to 24.5	24.5 to 27.2	27.2 to 29.3	29.3 to 32.6	32.6 to 35.4
				SMLW36WBFAW																
				SMLW36WBFBW																
				SMLW36WBFCW																
SMLW36WBFDW																				

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

Chromaticity Diagram



Part No. Construction



- \*1 Concerning the rank sign.
  - 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.

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