



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!



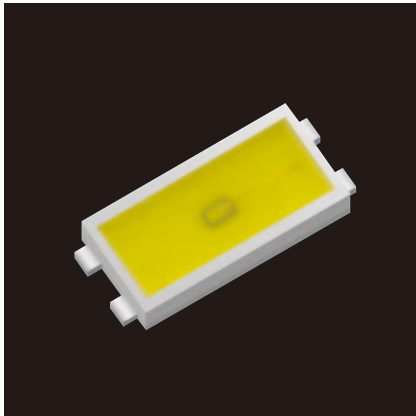
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SMLK34 series

PSML2

4520 (1808)
4.5 × 2.0mm (t=0.6mm)

Specifications

- High heat radiation package from ROHM original flat frame structure.
- Warm white, True white.

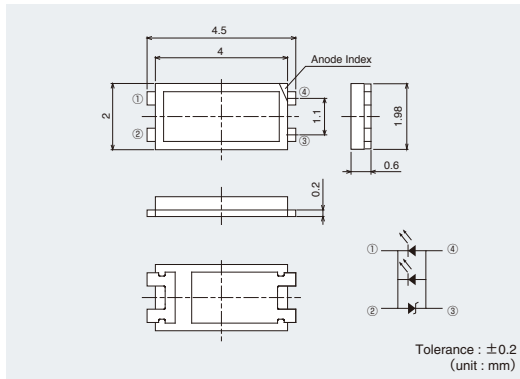
Color Type WB

Specifications

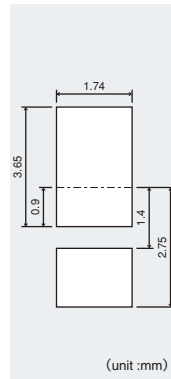
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)					Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Pd (mW)	Forward Current IF (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF Typ. (V)	IF (mA)	Chromaticity Coordinates (x, y)	IF (mA)	Luminous Intensity I _v Min. (mcd)	Typ. (mcd)	Luminous Flux Φ _v Typ. (lm)	IF (mA)	
<input type="checkbox"/> SMLK34WBECW	InGaN	White	360	90	300*	-	-40 to +100	-40 to +100	3.4	60	(0.30, 0.28)	60	4000	5500	60	(14)	60
<input type="checkbox"/> SMLK34WBEDW											(0.34, 0.34)						
<input type="checkbox"/> SMLK34WBEAW		High color rendering index (5000K)									(0.345, 0.351)	2200	3800	(9.5)			
<input type="checkbox"/> SMLK34WBEBW		High color rendering index (3000K)									(0.44, 0.40)						

* Duty1/10 1kHz (): Reference

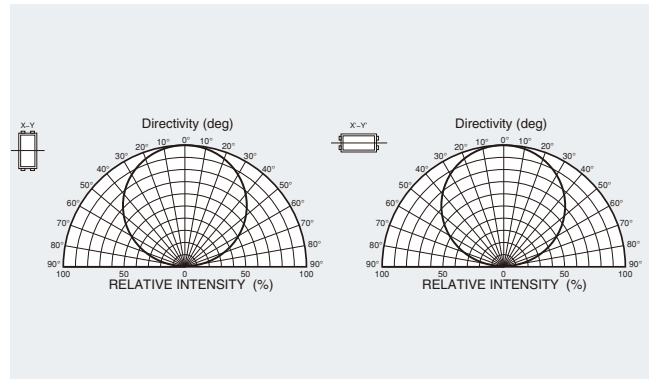
Dimensions



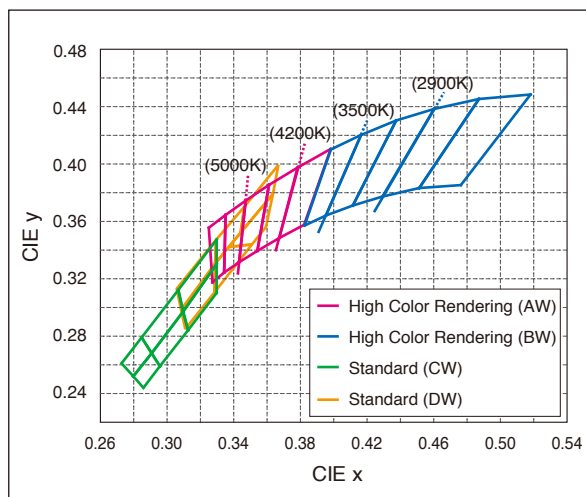
Recommended Solder Pattern



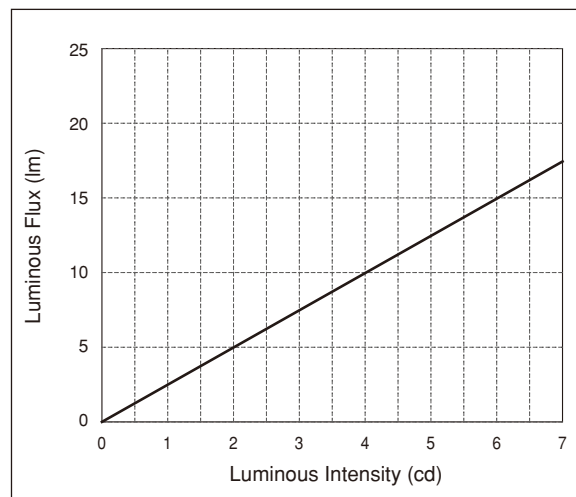
Viewing Angle



Chromaticity Diagram

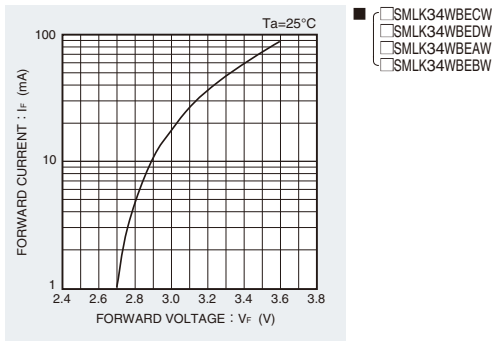


IV-θv



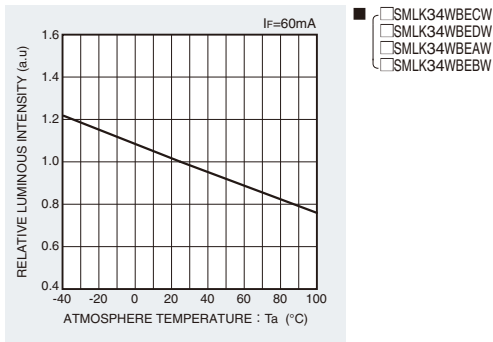
Electrical Characteristics Curves

Forward Current-Forward Voltage



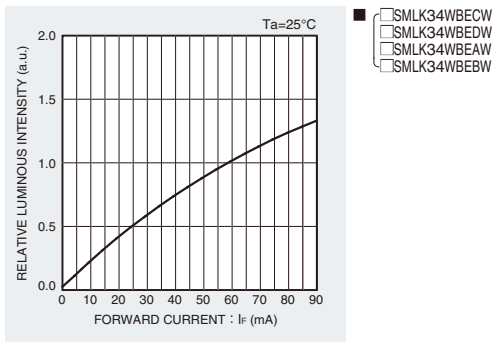
- SMLK34WBECW
- SMLK34WBEDW
- SMLK34WBEAW
- SMLK34WBEBW

Luminous Intensity-Atmosphere Temperature



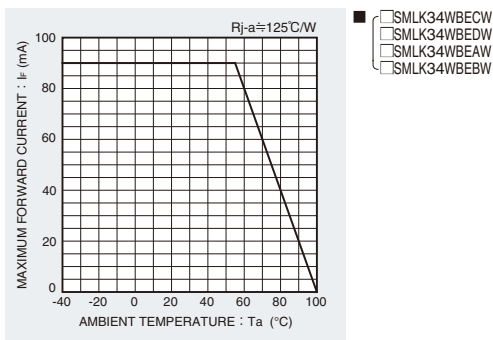
- SMLK34WBECW
- SMLK34WBEDW
- SMLK34WBEAW
- SMLK34WBEBW

Luminous Intensity-Forward Current



- SMLK34WBECW
- SMLK34WBEDW
- SMLK34WBEAW
- SMLK34WBEBW

Derating



- SMLK34WBECW
- SMLK34WBEDW
- SMLK34WBEAW
- SMLK34WBEBW

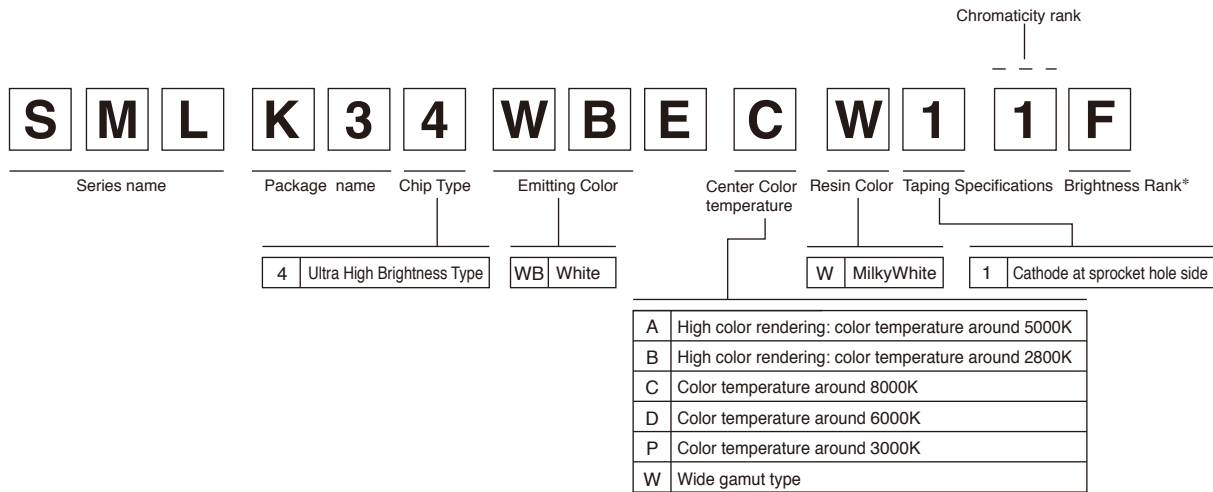
Rank Reference of Brightness

White (WB)

(Ta=25°C, If=60mA)

Package size (mm)	Height (mm)	Luminous intensity (mcd)	C	D	E	F	G	H	
			2200 to 2700	2700 to 3300	3300 to 4000	4000 to 4800	4800 to 5800	5800 to 7000	
PSML2	4520	0.6	SMLK34WBEAW						
			SMLK34WBEBW						
			SMLK34WBECW						
			SMLK34WBEDW						

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 distributor if necessary.

Notes

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Examples of application circuits, circuit constants and any other information contained herein illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.

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Please be sure to implement in your equipment using the Products safety measures to guard against the possibility of physical injury, fire or any other damage caused in the event of the failure of any Product, such as derating, redundancy, fire control and fail-safe designs. ROHM shall bear no responsibility whatsoever for your use of any Product outside of the prescribed scope or not in accordance with the instruction manual.

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