

1808<4.5×2.0 t=0.6mm> High Brightness Type

PSML2 (SMLK15WB**** Series)

Tentative Spec

Emitting Color	White
Material	InGaN on Si
Package Size(mm)	 4520(1808) 4.5×2.0(t=0.6)
Part No.	PSML2 (SMLK15WBFPW)

note) "-" will be taken out for emitting color B/E series.

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F^{-1} (mA)	Peak forward current I_{FP}^{-2} (mA)	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
SMLK15WBFPW	White	810	180	350	5	-40 to +100	-40 to +100

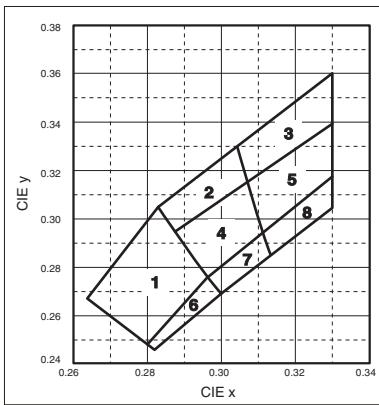
*1:Subject to adequate heat-radiation conditions of mounting board (e.g. use of metallic board, use of Cu land patterns)

*2:Duty $\leq 1/10$, pulse width ≤ 10 ms.

Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage V_F		Chromaticity coordinates			Brightness I_v		
		Typ. (V)	I_F (mA)	x	y	I_F (mA)	Min. (cd)	Typ. (cd)	I_F (mA)
SMLK15WBFPW	Phosphor included	3.8	100	0.30	0.30	100	—	6.4	100

Chromaticity Diagram

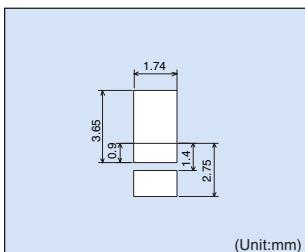


Chromaticity Coordinates (Ta=25°C, $I_F=150$ mA)

1	2	3	4	5	6	7	8
x	y	x	y	x	y	x	y
0.280	0.248	0.267	0.295	0.307	0.315	0.296	0.276
0.264	0.267	0.283	0.305	0.304	0.330	0.287	0.295
0.283	0.305	0.304	0.330	0.330	0.360	0.307	0.315
0.296	0.276	0.307	0.315	0.315	0.330	0.294	0.330

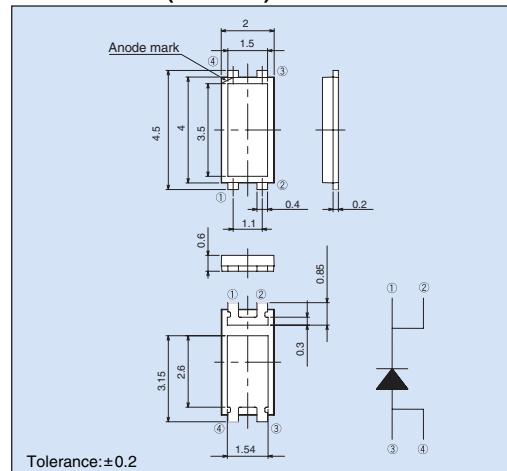
Measurement tolerance: ± 0.02

Recommended Pad Layout

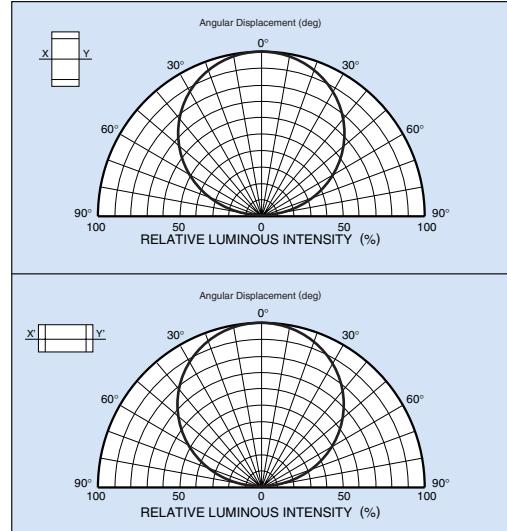


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

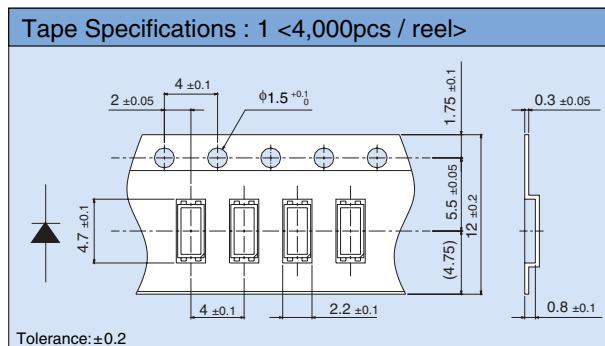
Dimensions (Unit:mm)



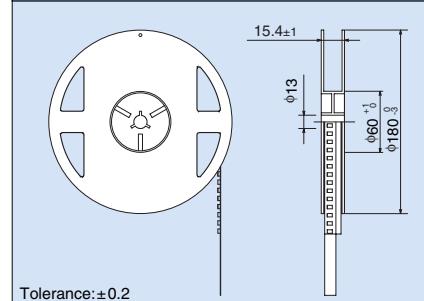
Directivity (Typ.)



Packaging Specifications (Unit : mm)



Reel Specifications



Appendix

Notes

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