Side View Chip LEDs 0605 <1.6 × 1.15 t=0.55mm> High Brightness Type

SMLA13WB *** Series Side View



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

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Po (mW)	Forward current IF (mA)	Peak forward current IFP * (mA)	Reverse voltage VR (V)	Operating temperature T _{opr} (°C)	Storage temperature Tstg (°C)
SMLA13WBDW	White	74	20	100	5	-30 to +85	-40 to +100

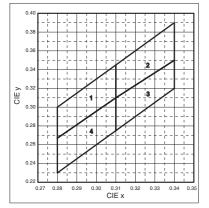
*:Duty ≦1/10 1kHz

Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage VF		Reverse current In		Chromaticity coordinates			Brightness Iv		
		Тур. (V)	l⊧* (mA)	Max. (µA)	Vr (V)	x	у	l⊧≭ (mA)	Min. (mcd)	Typ. (mcd)	lF* (mA)
SMLA13WBDW	Phosphor included	3.1	10	100	5	0.31	0.31	10	8.5	170	10

*Pulse width : 30ms

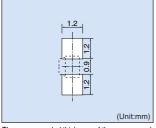
Chromaticity Diagram



1		2		1	3	4		
х	У	х	у	x	У	х	У	
0.280	0.267	0.310	0.345	0.340	0.320	0.280	0.230	
0.280	0.300	0.340	0.390	0.310	0.275	0.280	0.267	
0.310	0.345	0.340	0.350	0.310	0.310	0.310	0.310	
0.310	0.310	0.310	0.310	0.340	0.350	0.310	0.275	

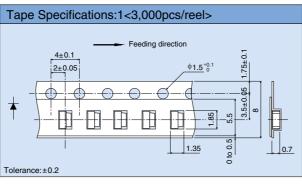
Measurement tolerance:±0.02

Recommended Pad Layout

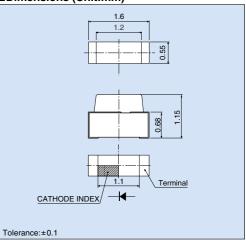


The recommended thickness of the screen mask for soldering is more than 150 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

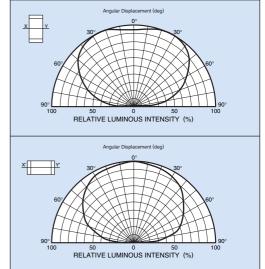
■ Packaging Specifications (Unit:mm)

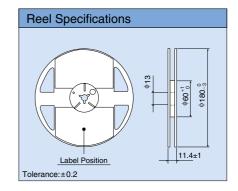


Dimensions (Unit:mm)



Directivity (Typ.)

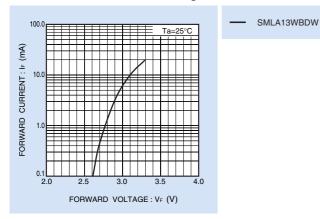




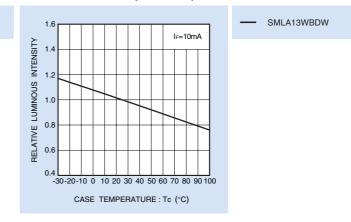


■Electrical Characteristic Curves

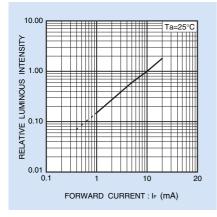
Forward Current - Forward Voltage



Relative Luminous Intensity - Case Temperature

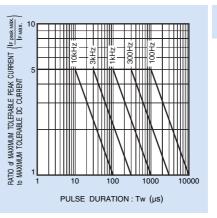


Relative Luminous Intensity - Forward Current

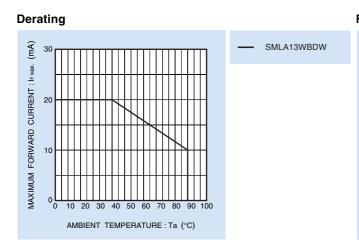


SMLA13WBDW

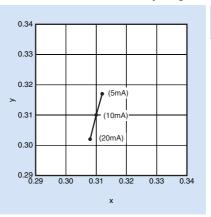
Ratio of Maximum Tolerable Peak Current - Pulse Duration



SMLA13WBDW



Forward Current - Chromaticity Diagram



SMLA13WBDW

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Appendix1-Rev2.0

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