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



SMLA13WB *** Series Side View

Emitting Color	White
Material	InGaN on SiC
Package Size(mm)	
Part No.	SMLA13WBDW

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 Topr (°C)	Storage temperature Tstg (°C)
SMLA13WBDW	White	74	20	100	5	-30 to +85	-40 to +100

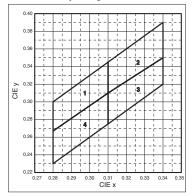
*:Duty ≦1/10 1kHz

Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage VF		Reverse current I _R		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

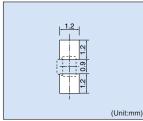
Chromaticity Diagram



1		1	2	3	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	

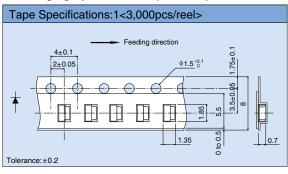
Measurement tolerance:±0.02

Recommended Pad Layout

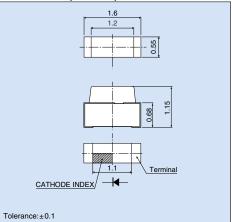


The recommended thickness of the screen mask for soldering is more than 150 μ m. The hole size of the screen mask should be same as the recommended land pattern or smaller.

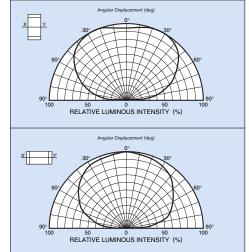
Packaging Specifications (Unit:mm)

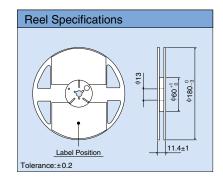


Dimensions (Unit:mm)



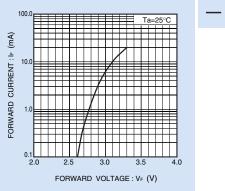
Directivity (Typ.)





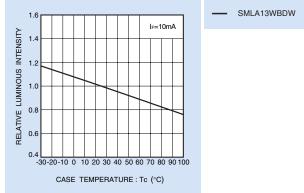
Electrical Characteristic Curves

Forward Current - Forward Voltage

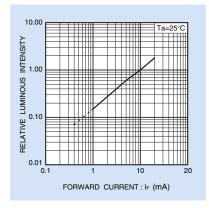


- SMLA13WBDW

Relative Luminous Intensity - Case Temperature

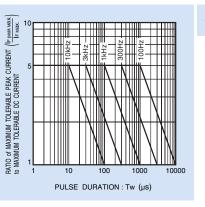


Relative Luminous Intensity - Forward Current



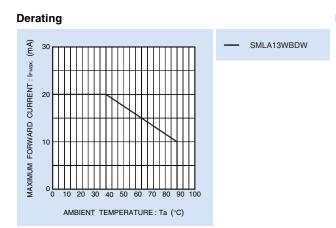
SMLA13WBDW

Ratio of Maximum Tolerable Peak Current - Pulse Duration

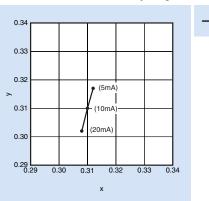


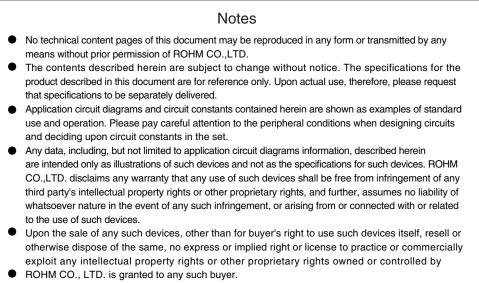
SMLA13WBDW

SMLA13WBDW



Forward Current - Chromaticity Diagram





• Products listed in this document are no antiradiation design.

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Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

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