

# 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.	SMLA13WBW

1611(0605) 1.6×1.15(t=0.55)

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

### Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Pd (mW)	Forward current IF (mA)	Peak forward current IFP* (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SMLA13WBW	White	74	20	100	5	-30 to +85	-40 to +100

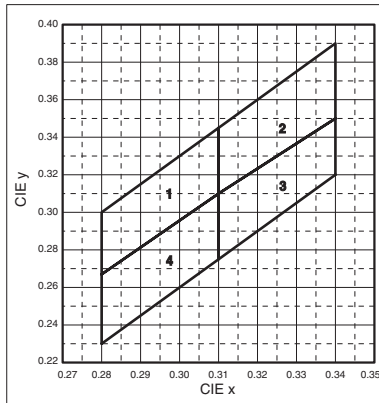
\*:Duty ≤ 1/10 1kHz

### Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage VF		Reverse current IR		Chromaticity coordinates			Brightness Iv		
		Typ. (V)	IF* (mA)	Max. (μA)	VR (V)	x	y	IF* (mA)	Min. (mcd)	Typ. (mcd)	IF* (mA)
SMLA13WBW	Phosphor included	3.1	10	100	5	0.31	0.31	10	8.5	170	10

\*Pulse width : 30ms

### Chromaticity Diagram

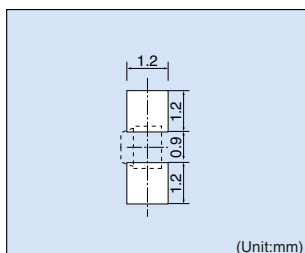


Chromaticity Coordinates (Ta=25°C, IF=10mA)

1		2		3		4	
x	y	x	y	x	y	x	y
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

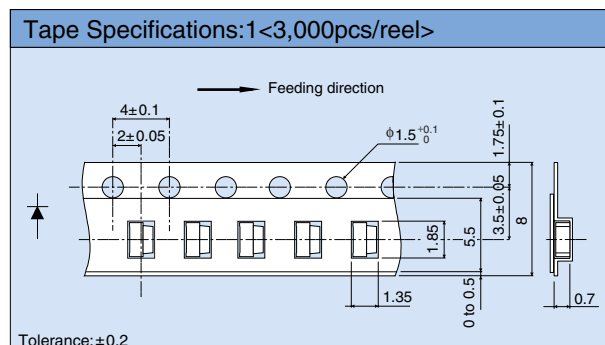
Measurement tolerance:±0.02

### Recommended Pad Layout

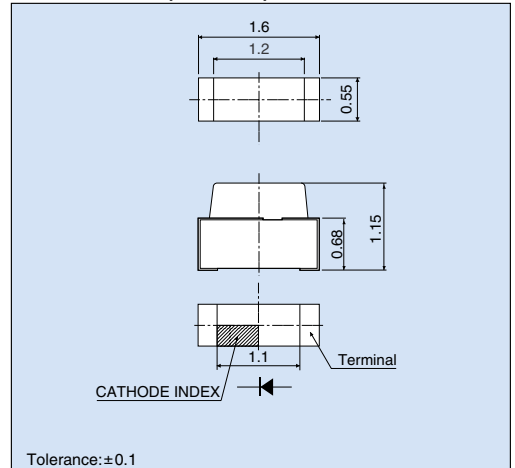


The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

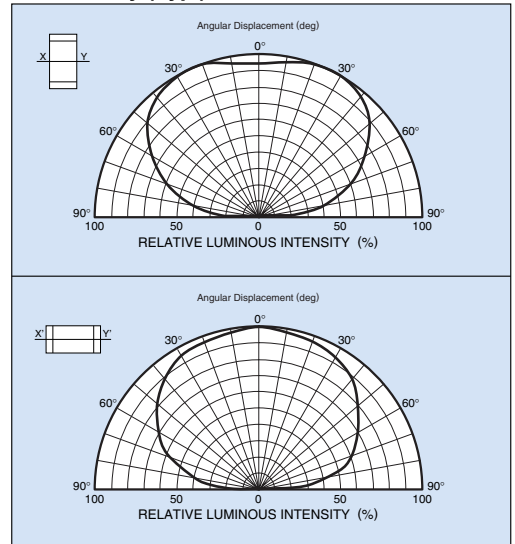
### Packaging Specifications (Unit:mm)



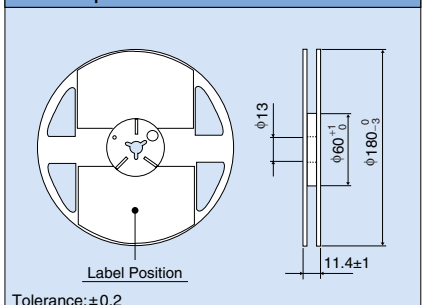
### Dimensions (Unit:mm)



### Directivity (Typ.)

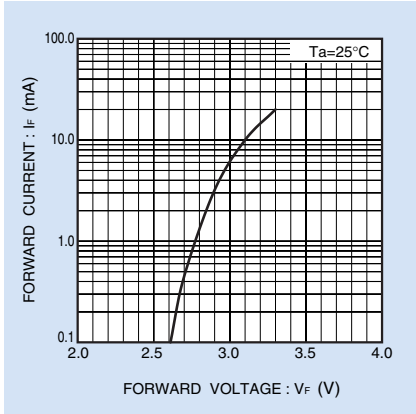


### Reel Specifications



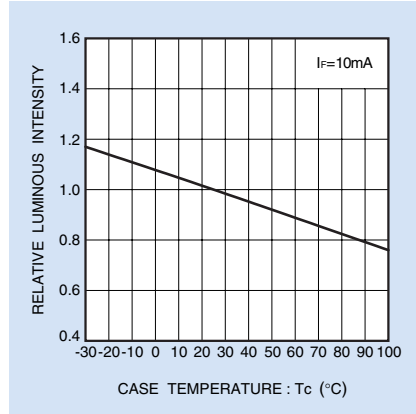
## Electrical Characteristic Curves

### Forward Current - Forward Voltage



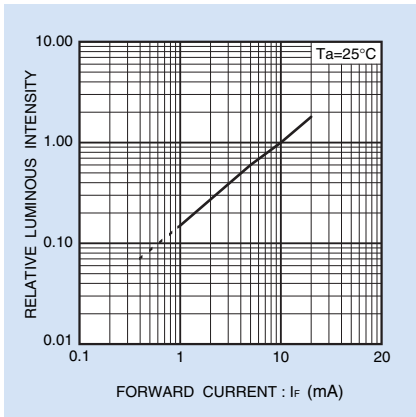
— SMLA13WBDW

### Relative Luminous Intensity - Case Temperature



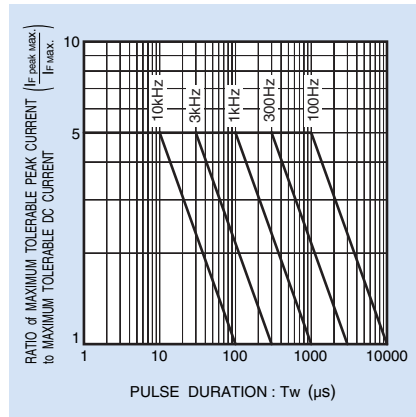
— SMLA13WBDW

### Relative Luminous Intensity - Forward Current



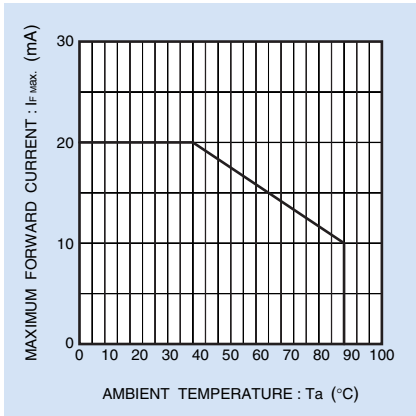
— SMLA13WBDW

### Ratio of Maximum Tolerable Peak Current - Pulse Duration



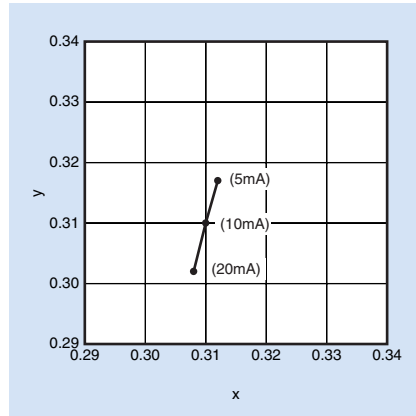
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### Derating



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### Forward Current - Chromaticity Diagram



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