



# Side View Chip LEDs 0605 <1.6×1.15 t=0.55mm> Low Current Type(I<sub>F</sub> ≤ 10mA)

## SMLA12WB \*\*\* Series

Side View

Emitting Color	White
Material	InGaN on SiC
Package Size(mm)	
	
	1611(0605) 1.6×1.15(t=0.55)
Part No.	SMLA12WBC7W

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

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

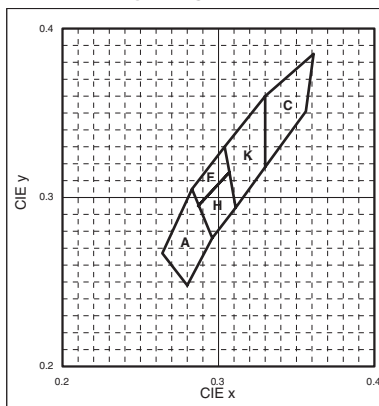
Part No.	Emitting color	Power dissipation P <sub>D</sub> (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current I <sub>FP</sub> * (mA)	Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)
SMLA12WBC7W	White	66	20	100	5	-30 to +85	-40 to +100

\*:Duty ≤ 1/10 1kHz

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

Part No.	Resin	Forward voltage V <sub>F</sub>		Reverse current I <sub>R</sub>		Brightness I <sub>v</sub>			Chromaticity coordinates		
		Typ. (V)	I <sub>F</sub> (mA)	Max. (μA)	V <sub>R</sub> (V)	Min. (mcd)	Typ. (mcd)	I <sub>F</sub> (mA)	x	y	I <sub>F</sub> (mA)
SMLA12WBC7W	Phosphor included	2.9	5	100	5	22	56	5	0.30	0.30	5

### Chromaticity Diagram

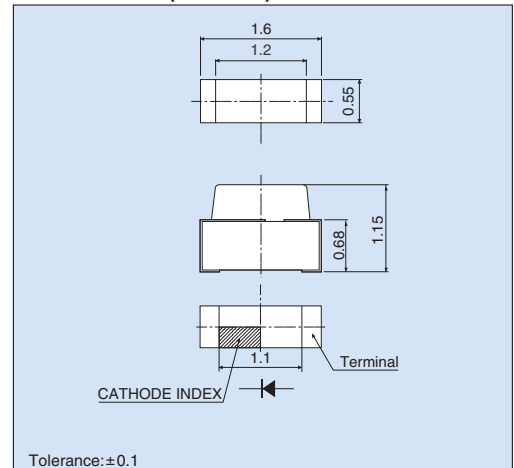


Chromaticity Coordinates (Ta=25°C, I<sub>F</sub>=5mA)

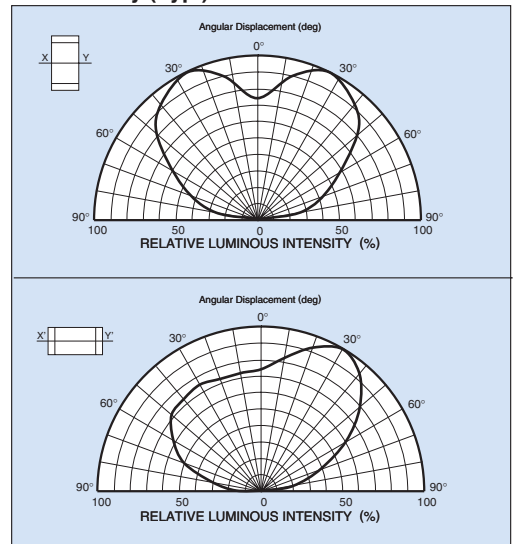
A		F		H		K		C	
x	y	x	y	x	y	x	y	x	y
0.280	0.248	0.283	0.305	0.287	0.295	0.304	0.330	0.330	0.318
0.296	0.276	0.304	0.330	0.307	0.315	0.330	0.360	0.356	0.351
0.283	0.305	0.307	0.315	0.311	0.294	0.330	0.318	0.361	0.385
0.264	0.267	0.287	0.295	0.296	0.276	0.311	0.294	0.330	0.360

Measurement tolerance:±0.02

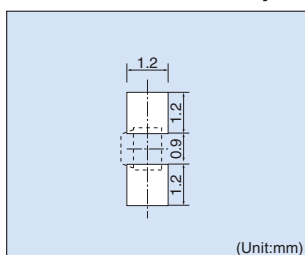
### Dimensions (Unit:mm)



### Directivity (Typ.)

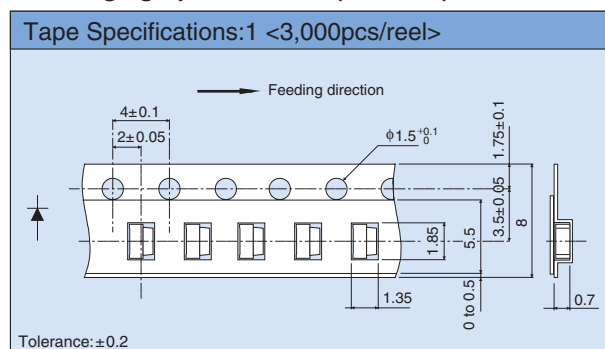


### Recommended Pad Layout

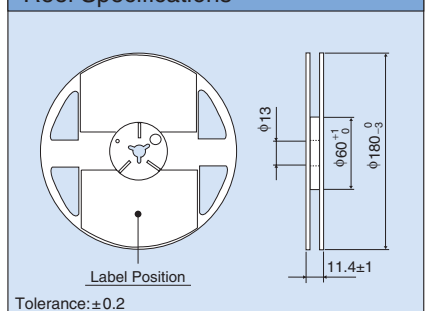


The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

### Packaging Specifications (Unit:mm)

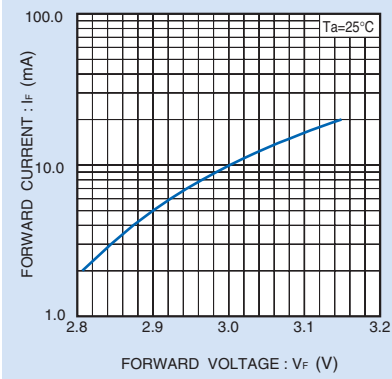


### Reel Specifications



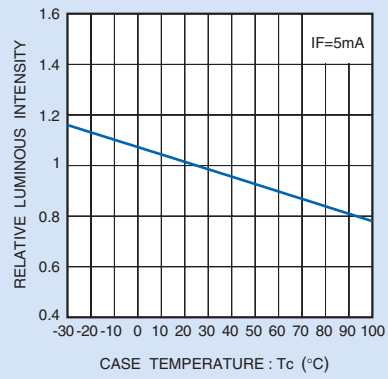
## Electrical Characteristic Curves

### Forward Current - Forward Voltage



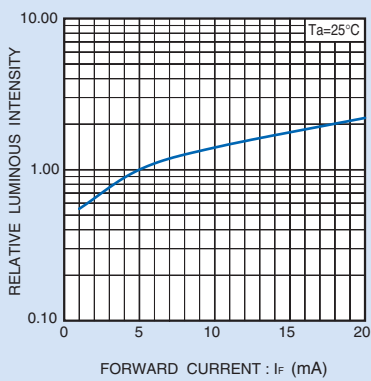
SMLA12WBC7W

### Relative Luminous Intensity - Case Temperature



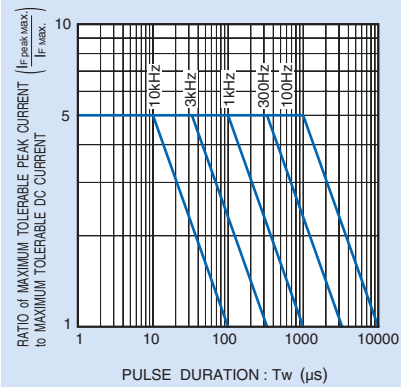
SMLA12WBC7W

### Relative Luminous Intensity - Forward Current



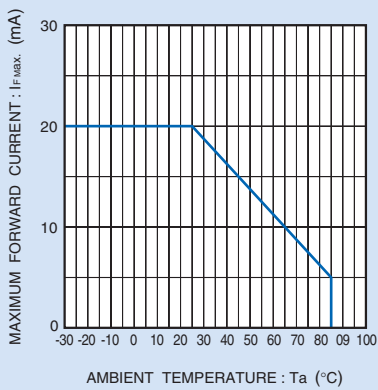
SMLA12WBC7W

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



SMLA12WBC7W

## Derating



SMLA12WBC7W

### Notes

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