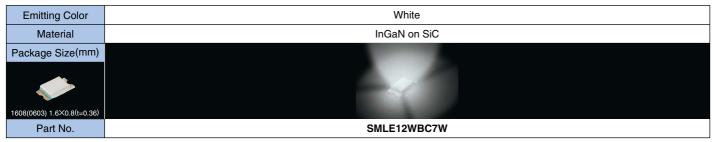
# 0603 <1.6×0.8 t=0.36mm> Low Current Type(IF≦10mA)



# SMLE12WB \*\*\* Series



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

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

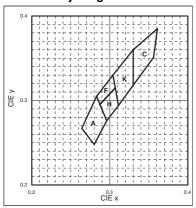
	Part No.	Emitting color	Power dissipation P <sub>D</sub> (mW)	Forward current IF (mA)	Peak forward current IFP* (mA)	Reverse voltage V <sub>R</sub> (V)		Storage temperature Tstg ( C)
١	SMLE12WBC7W	White	66	20	100	5	-30 to +85	-40 to +100

<sup>\*:</sup>Duty ≦1/10, 1kHz.

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

Part No.	Resin	Forward voltage V <sub>F</sub>		Reverse current In		Brightness Iv			Chromaticity coordinates		
		Typ. (V)	lF (mA)	Max. (μΑ)	Vr (V)	Min. (mcd)	Typ. (mcd)	lF (mA)	Х	Υ	IF (mA)
SMLE12WBC7W	Phosphor included	2.9	5	100	5	22	71	5	0.30	0.30	5

### **■**Chromaticity Diagram

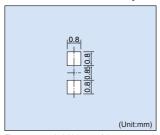


Chromaticity	Coordinates	(Ta=25°C,	IF=5mA)

Α		F		н		К		С	
x	у	х	у	х	у	х	у	х	у
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

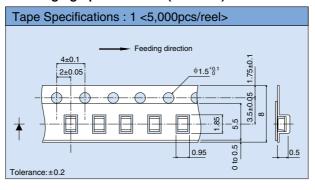
Measurement tolerance:±0.02

# ■Packaging Specifications (Unit:mm)

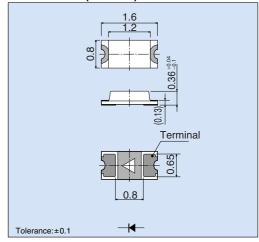


■Recommended Pad Layout

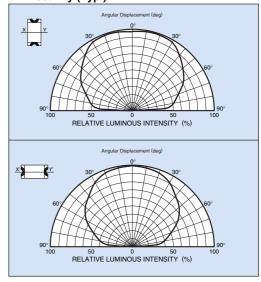
The recommended thickness of the screen mask for soldering is between 100 and 150µm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

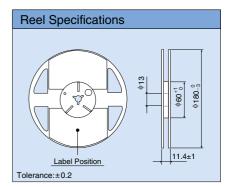


#### **■**Dimensions (Unit:mm)



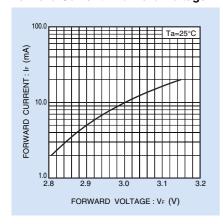
# ■ Directivity (Typ.)



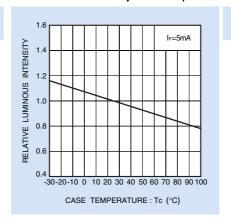


# **■**Electrical Characteristic Curves

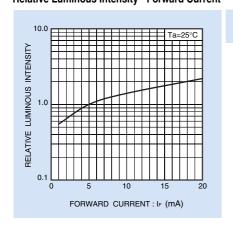
## **Forward Current - Forward Voltage**



### **Relative Luminous Intensity - Case Temperature**



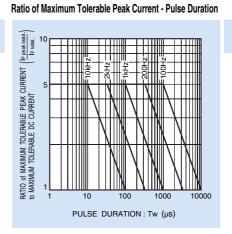
# **Relative Luminous Intensity - Forward Current**



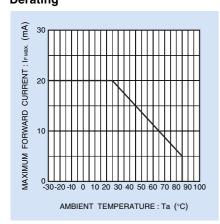
SMLE12WBC7W

SMLE12WBC7W

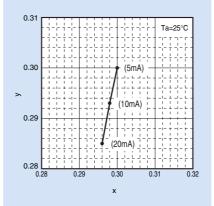
SMLE12WBC7W



# Derating



Forward Current - Chromaticity Diagram



- SMLE12WBC7W

SMLE12WBC7W

SMLE12WBC7W

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