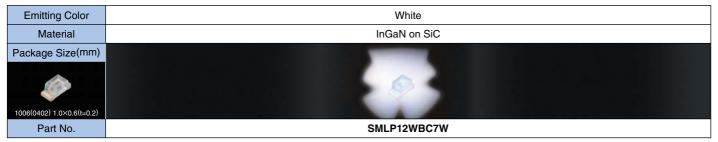
$0402 < 1.0 \times 0.6 t = 0.2 mm >$







SMLP12WB *** Series



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

■ Absolute Maximum Ratings (Ta=25°C)

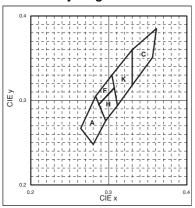
Part No.	Emitting color			Forward current IF (mA)			Storage temperature Tstg (°C)	
SMLP12WBC7W	White	66	20	100	5	-40 to +85	-40 to +100	

^{*:}Duty ≦1/10,1kHz.

■ Electrical Optical Characteristics (Ta=25 °C)

Part No.	Resin	Forward voltage V _F		Reverse current In		Brightness Iv			Chromaticity coordinates		
		Typ. (V)	lF (mA)	Max. (μΑ)	Vr (V)	Min. (mcd)	Typ. (mcd)	lF (mA)	х	у	IF (mA)
SMLP12WBC7W	Phosphor included	2.9	5	100	5	36	71	5	0.30	0.30	5

■Chromaticity Diagram

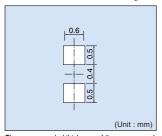


Chromaticity	Coordinates	(Ta=25°C,	IF=5mA)

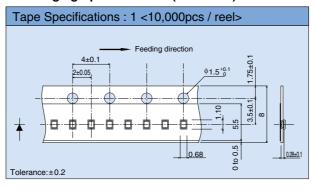
Α		F		Н		К		С	
х	у	х	у	х	у	х	у	х	у
0.280	0.248	0.283	0.305	0.287	0.295	0.304	0.330	0.330	0.318
0.296	0.276	0.304	0.330	0.307	0.315	0.330	0.360	0.356	0.351
0.283	0.305	0.307	0.315	0.311	0.294	0.330	0.318	0.361	0.385
0.264	0.267	0.287	0.295	0.296	0.276	0.311	0.294	0.330	0.360

Measurement tolerance:±0.02

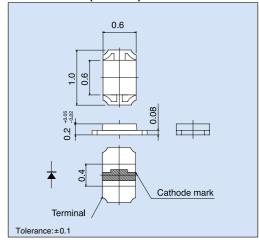
■ Packaging Specifications (Unit: mm) ■ Recommended Pad Layout



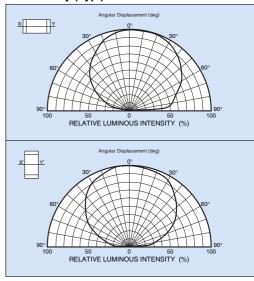
The recommended thickness of the screen mask for soldering is between 80 and 130 μm . The hole size of the screen mask should be same as the recommended land pattern or smaller.

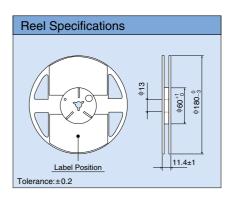


■Dimensions (Unit:mm)



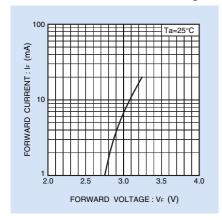
■Directivity (Typ.)



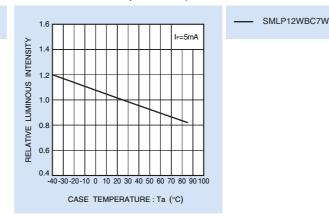


■Electrical Characteristic Curves

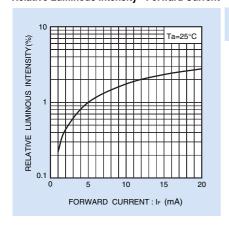
Forward Current - Forward Voltage



Relative Luminous Intensity - Case Temperature



Relative Luminous Intensity - Forward Current

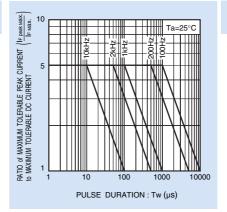


SMLP12WBC7W

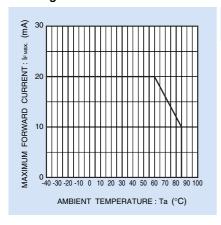
SMLP12WBC7W

Ratio of Maximum Tolerable Peak Current - Pulse Duration

SMLP12WBC7W



Derating



- SMLP12WBC7W

Notes

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Appendix1-Rev2.0

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