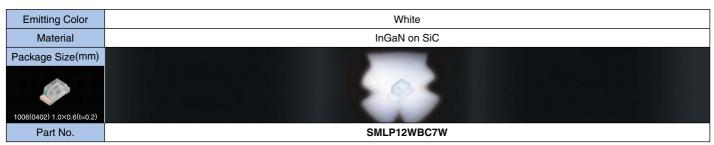
0402<1.0×0.6 t=0.2mm> Standard Type

SMLP12WB *** Series





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

■ Absolute Maximum Ratings (Ta=25°C)

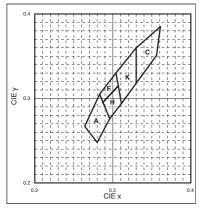
Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F (mA)	Peak forward current IFP [*] (mA)	Reverse voltage VR (V)	Operating temperature T _{opr} (°C)	Storage temperature Tstg (°C)
SMLP12WBC7W	White	66	20	100	5	-40 to +85	-40 to +100

*:Duty ≦1/10,1kHz.

■ Electrical Optical Characteristics (Ta=25 °C)

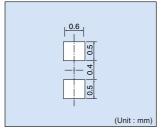
Part No.	Resin	Forward voltage VF		Reverse current In		Brightness Iv			Chromaticity coordinates		
		Тур. (V)	lF (mA)	Max. (µA)	Vr (V)	Min. (mcd)	Typ. (mcd)	lF (mA)	x	у	l⊧ (mA)
SMLP12WBC7W	Phosphor included	2.9	5	100	5	36	71	5	0.30	0.30	5

Chromaticity Diagram



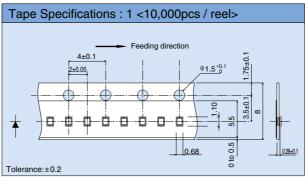
A		F		н		к		С	
х	у	х	у	х	у	х	у	х	У
0.280	0.248	0.283	0.305	0.287	0.295	0.304	0.330	0.330	0.318
0.296	0.276	0.304	0.330	0.307	0.315	0.330	0.360	0.356	0.351
0.283	0.305	0.307	0.315	0.311	0.294	0.330	0.318	0.361	0.385
0.264	0.267	0.287	0.295	0.296	0.276	0.311	0.294	0.330	0.360

Recommended Pad Layout

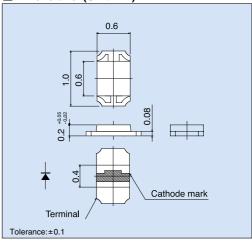


The recommended thickness of the screen mask for soldering is between 80 and 130μ m. The hole size of the screen mask should be same as the recommended land pattern or smaller.

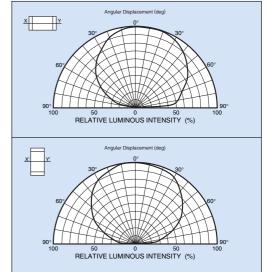
■ Packaging Specifications (Unit : mm)

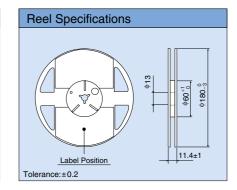


Dimensions (Unit:mm)



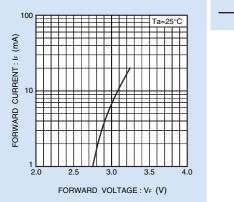
Directivity (Typ.)





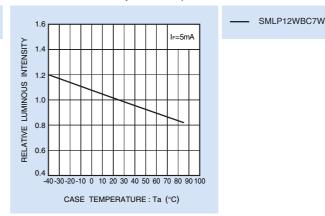
■Electrical Characteristic Curves

Forward Current - Forward Voltage

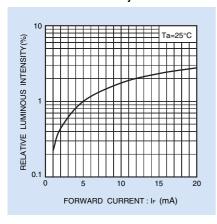


- SMLP12WBC7W

Relative Luminous Intensity - Case Temperature

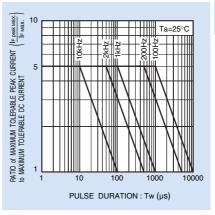


Relative Luminous Intensity - Forward Current



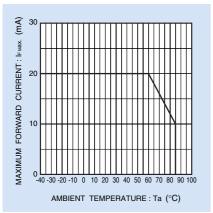


Ratio of Maximum Tolerable Peak Current - Pulse Duration



- SMLP12WBC7W

Derating



SMLP12WBC7W

Notes

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Appendix1-Rev2.0

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