Side View Chip LEDs 0704 <1.8 \times 1.0 t=0.35mm> Low Current Type(IF \leq 10mA)



SMLF13WB *** Series

Side View



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 IF (mA)	Peak forward current IFP* (mA)	Reverse voltage V _R (V)	Operating temperature Topr (°C)	Storage temperature T _{stg} (°C)	
SMLF13WBDW	White	74	20	100	5	-30 to +85	-40 to +100	

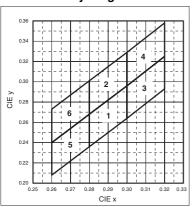
*:Duty ≦ 1/10 1kHz

■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage V _F		Reverse current In		Brightness Iv			Chromaticity coordinates		
		Typ. (V)	lF* (mA)	Max. (µA)	VR (V)	Min. (mcd)	Typ. (mcd)	lF* (mA)	х	у	IF* (mA)
SMLF13WBDW	Phosphor included	2.9	5	100	5	36	90	5	0.31	0.31	5

^{*}Pulse width : 30ms

■Chromaticity Diagram

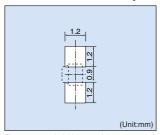


Chromaticity Coordinates (Ta=25°C, IF=5mA)

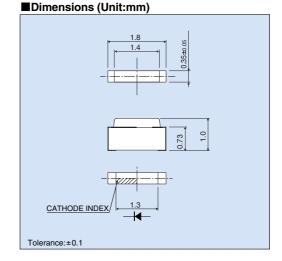
1		2		3		4		5		6	
x	у	х	у	х	у	х	у	х	у	х	у
0.280	0.236	0.280	0.268	0.300	0.264	0.304	0.300	0.296	0.260	0.240	0.240
0.280	0.268	0.280	0.301	0.300	0.296	0.330	0.300	0.329	0.280	0.268	0.273
0.300	0.296	0.300	0.329	0.320	0.325	0.330	0.320	0.358	0.280	0.236	0.301
0.300	0.264	0.300	0.296	0.320	0.293	0.311	0.320	0.325	0.260	0.208	0.268

Measurement tolerance:±0.02

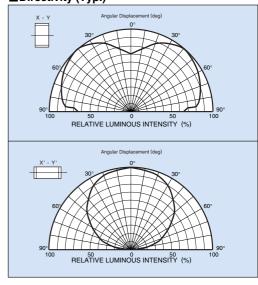
■ Recommended Pad Layout



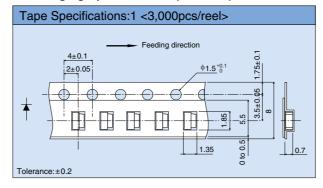
The recommended thickness of the screen mask for soldering is more than 150µm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

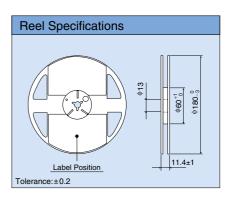


■Directivity (Typ.)



■ Packaging Specifications (Unit:mm)





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Appendix1-Rev2.0

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