

Side View Chip LEDs 0704 $1.8 \times 1.0 t=0.35\text{mm}>$ Low Current Type ($I_F \leq 10\text{mA}$)



SMLF13WB *** Series

Side View

Emitting Color	White
Material	InGaN on SiC
Package Size(mm)	 1810(0704) 1.8x1.0(t=0.35)
Part No.	SMLF13WBDW

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 I _{FP} * (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SMLF13WBDW	White	74	20	100	5	-30 to +85	-40 to +100

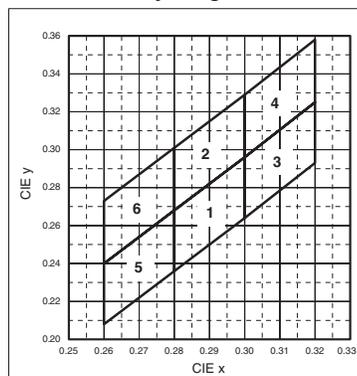
*:Duty ≤ 1/10 1kHz

Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin	Forward voltage V _F		Reverse current I _R		Brightness I _v			Chromaticity coordinates		
		Typ. (V)	I _F * (mA)	Max. (μA)	V _R (V)	Min. (mcd)	Typ. (mcd)	I _F * (mA)	x	y	I _F * (mA)
SMLF13WBDW	Phosphor included	2.9	5	100	5	36	90	5	0.31	0.31	5

*Pulse width : 30ms

Chromaticity Diagram

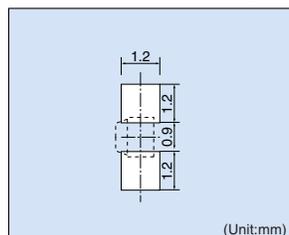


Chromaticity Coordinates (Ta=25°C, I_F=5mA)

1		2		3		4		5		6	
x	y	x	y	x	y	x	y	x	y	x	y
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

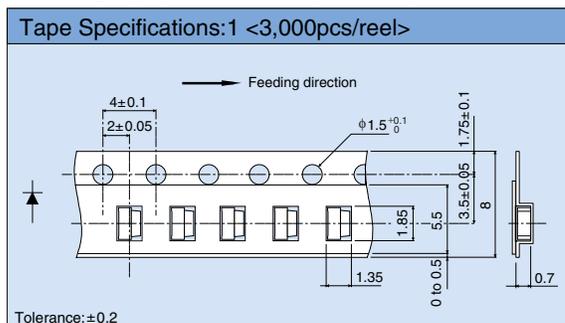
Measurement tolerance:±0.02

Recommended Pad Layout



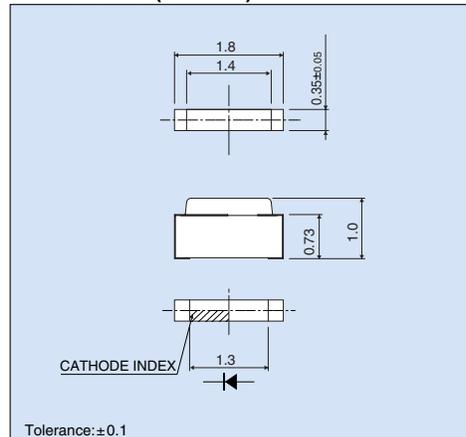
The recommended thickness of the screen mask for soldering is more than 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)



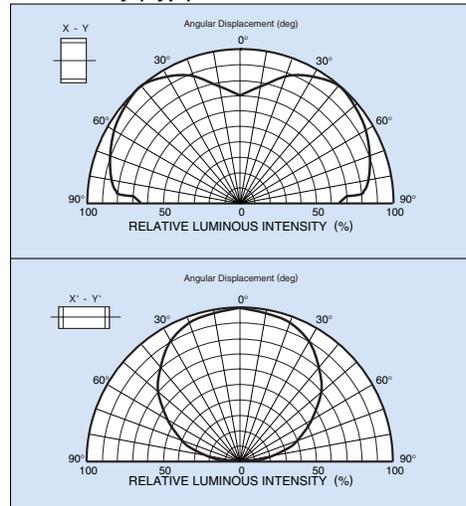
Tolerance: ±0.2

Dimensions (Unit:mm)

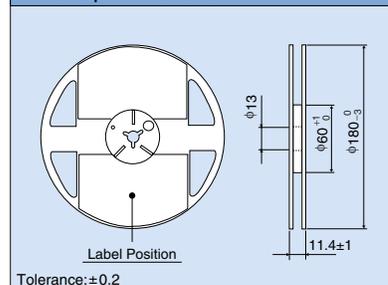


Tolerance: ±0.1

Directivity (Typ.)



Reel Specifications



Tolerance: ±0.2

Notes

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