

Tri-Color Top View 0404 <1.0×1.0 t=0.2mm> High Brightness Type

SMLP34 Series (under development)

Target Spec.

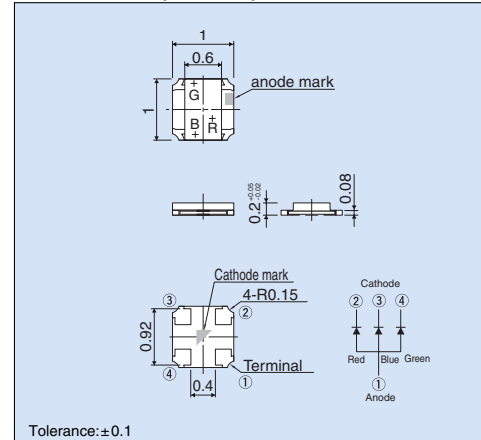
Emitting Color	Part No.	Blue	Green	Red
Material		InGaN on SiC		
Package Size(mm)	 SMLP34RGB1W 1010(0404) 1.0×1.0(t=0.2)			

Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation P _D (mW)	Forward current I _F ¹ (mA)	Peak forward current I _{FP} ² (mA)	Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)
SMLP34RGB1W	Blue	64	20	100	5	-30 to +85	-40 to +100
	Green						
	Red						

*1: The above absolute maximum ratings are valid for the case of lighting a single color. When lighting two colors at the same time, each of the figures in the absolute maximum ratings should be reduced down to 50% of it. When lighting three colors, it will be reduced down to 30% of it. (DC drive)
*2: Conditions of I_{FP}: Pulse width ≤ 1ms Duty ≤ 1/120

Dimensions (Unit:mm)



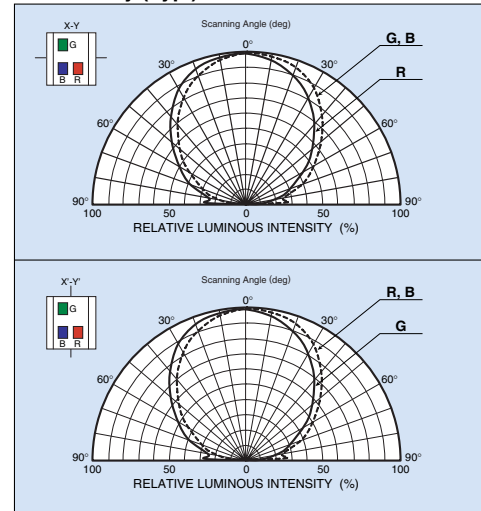
Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V _F		Reverse current I _R		Light wavelength Dominant λ _D ³		Brightness I _v		
		Typ. (V)	I _F (mA)	Max. (μA)	V _R (V)	Typ. (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)
SMLP34RGB1W	Milky White	3.0 (3.2)	5 (20)	100	5	470	5	9.0 (28)	18 (50)	5 (20)
		3.1 (3.3)				527		36 (110)	71 (200)	
		1.9 (2.2)				624		14 (56)	28 (100)	

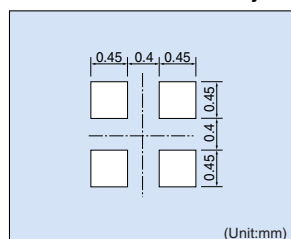
*3: Measurement tolerance: ±2nm

(): reference

Directivity (Typ.)

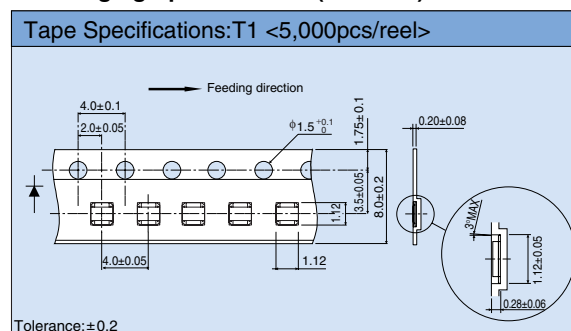


Recommended Pad Layout

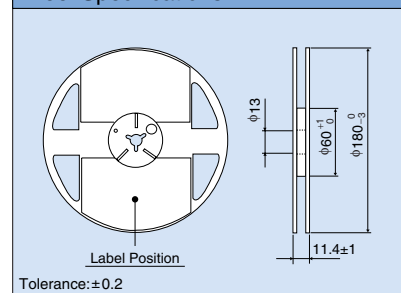


The recommended thickness of the screen mask for soldering is between 80 and 130μm. The hole size of the screen mask should be the same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)



Reel Specifications



Notes

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