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	Fait No.	InGaN	AlGainP on GaAs		
Package Size(mm)					
1010(0404) 1.0×1.0(t=0.2)	SMLP34RGB1W	0	0	0	

■ Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation Pp (mW)	Forward current IF*1 (mA)	Peak forward current IFP*2 (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
	Blue						
SMLP34RGB1W	Green	64	20	100	5	-30 to +85	-40 to +100
	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)

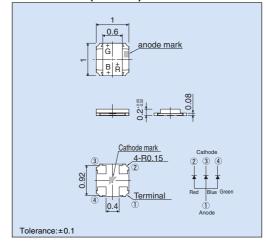
*2:Conditions of IFP: Pulse width ≦ 1ms Duty ≦ 1/120

■Electrical Optical Characteristics (Ta=25°C)

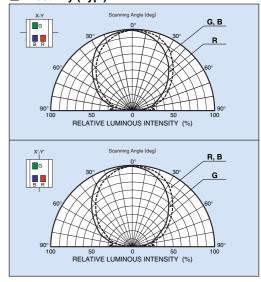
Part No.	Resin Color	Forward voltage V _F		Reverse current In		Light wavelength Dominant λD^{*3}		Brightness Iv		
		Typ.	lF (mA)	Max. (μA)	VR (V)	Typ. (nm)	lF (mA)	Min. (mcd)	Typ. (mcd)	lF (mA)
		3.0 (3.2)				470		9.0 (28)	18 (50)	
SMLP34RGB1W	Milky White	3.1 (3.3)	5 (20)	100	5	527	5	36 (110)	71 (200)	5 (20)
		1.9 (2.2)				624		14 (56)	28 (100)	

^{) :} reference *3:Measurement tolerance: ±2nm

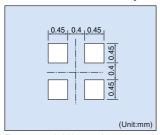
■Dimensions (Unit:mm)



■Directivity (Typ.)

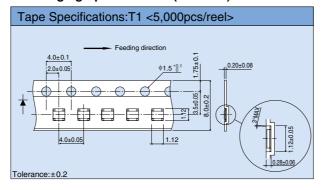


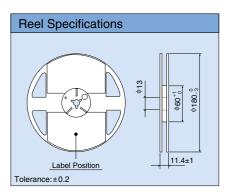
■Recommended Pad Layout



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.

■ Packaging Specifications (Unit:mm)





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