

Tri-Color Side View 1104 <2.7×0.95 t=0.5mm> High Brightness Type



SMLN34 Series (under development)

PICOLED™-RGB

Target Spec.

Emitting Color	Part No.	Blue	Green	Red
Material		InGaN on SiC		
Package Size(mm)	 SMLN34RGB1T 2710(1104) 2.7×0.95(t=0.5)			

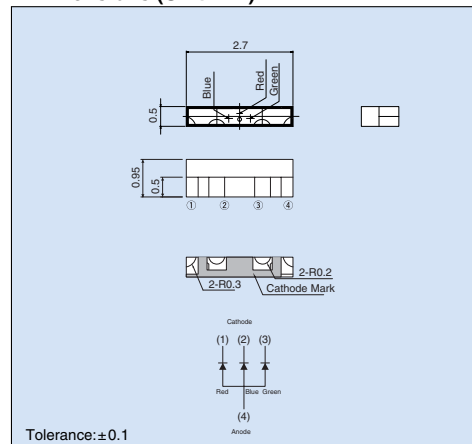
Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Forward current IF ¹ (mA)	Peak forward current IFP ² (mA)	Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
SMLN34RGB1T	Blue	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 IFP : Pulse width ≤ 1ms Duty ≤ 1/120

Dimensions (Unit:mm)

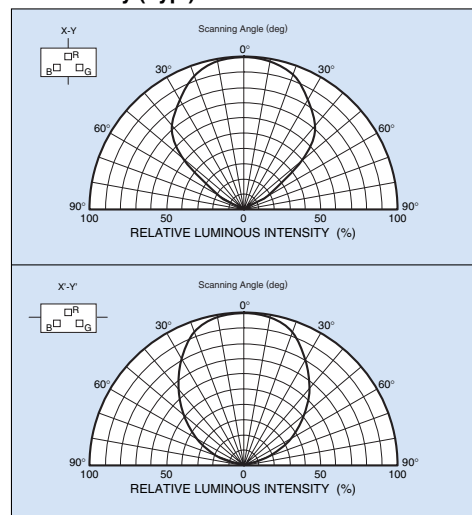


Electrical Optical Characteristics (Ta=25°C)

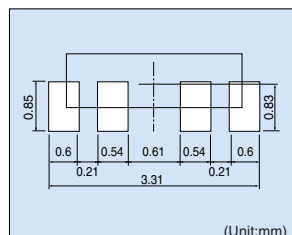
Resin Color	Resin Color	Forward voltage VF		Reverse current IR		Light wavelength Dominant λD ³		Brightness Iv		
		Typ. (V)	IF (mA)	Max. (μA)	VR (V)	Typ. (nm)	IF (mA)	Min. (mcd)	Typ. (mcd)	IF (mA)
SMLN34RGB1T	Transparent colorless	2.8	5	100	5	470	5	14	37	5
		2.9				530		9	42	
		1.9				630		18		

*3: Measurement tolerance : ±2nm

Directivity (Typ.)

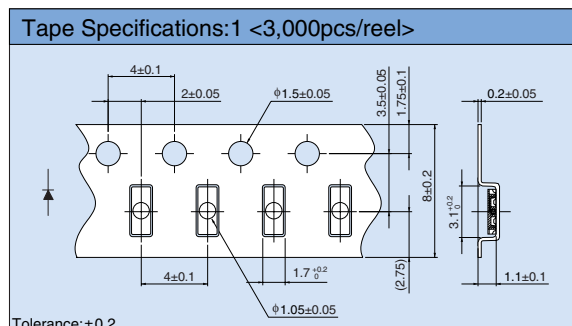


Recommended Pad Layout

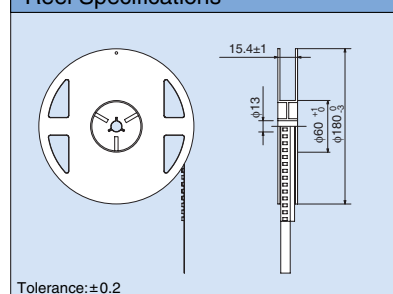


The recommended thickness of the screen mask for soldering is between 100 and 150μm. The hole size of the screen mask should be same as the recommended land pattern or smaller.

Packaging Specifications (Unit:mm)



Reel Specifications



Notes

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