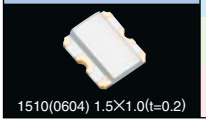
Tri-Color Top View
0604 <1.5×1.0 t=0.2mm> High Brightness Type

SMLP36 Series (under development)

PICOLED™-RGB

Target Spec.

Emitting Color	Part No.		Blue	Green	Red
Material			InGaN on SiC		AlGaInP on GaAs
Package Size(mm)	SMLP36RGB1W		○	○	○



■Absolute Maximum Ratings (Ta=25°C)

Part No.	Emitting color	Power dissipation P_D (mW)	Forward current I_F (mA)*1	Peak forward current I_{FP} (mA)*2	Reverse voltage V_R (V)	Operating temperature T_{opr} (°C)	Storage temperature T_{stg} (°C)
	Blue						
SMLP36	Green	64	20	100	5	-30 to +85	-40 to +100
	Red						

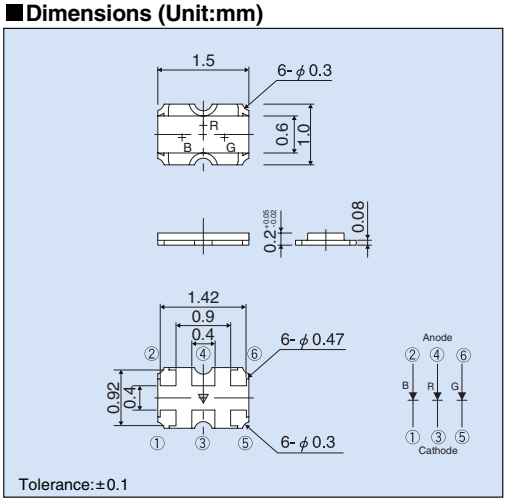
*1:The above absolute maximum ratings are valid for the case of lighting a single color. When lighting two colors at the same time, each of the figures in the absolute maximum ratings should be reduced down to 50% of it. When lighting three colors, it will be reduced down to 30% of it. (DC drive)
*2:Conditions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

■Electrical Optical Characteristics (Ta=25°C)

Part No.	Resin Color	Forward voltage V_F		Reverse current I_R		Light wavelength Dominant λD*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)
		3.0 (3.2)				470		9.0 (28)	18 (50)	
SMLP36	Milkey 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)	

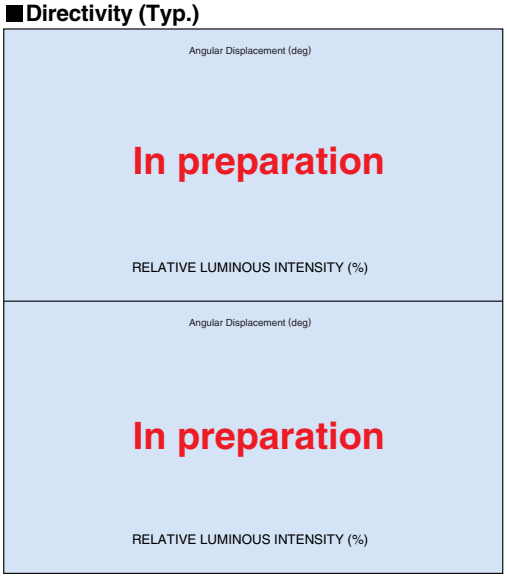
*3:Measurement tolerance : ±2nm

■Dimensions (Unit:mm)

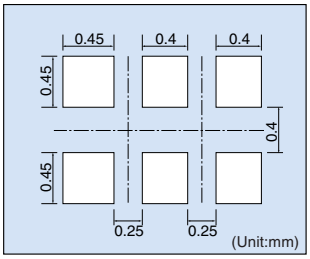


Tolerance:±0.1

■Directivity (Typ.)



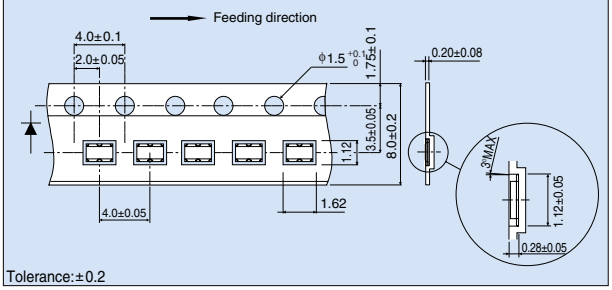
■Recommended Pad Layout



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

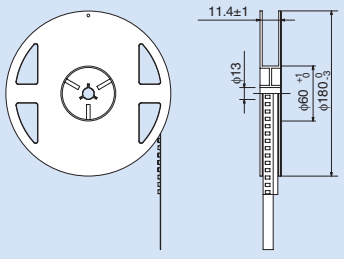
■Packaging Specifications (Unit:mm)

Tape Specifications:1 <5,000pcs/reel>



Tolerance:±0.2

Reel Specifications



Tolerance:±0.2

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www.rohm.com

Contact us : webmaster@rohm.co.jp

ROHM CO., LTD. 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan
TEL : +81-75-311-2121
FAX : +81-75-315-0172