

SMLP3 Series PICOLED[™]-RGB

SMLP34RGB1W

4pin type
1010(0404)
1.0×1.0mm(t=0.2mm)

SMLP36RGB1W

6pin type 1510(0604) 1.5×1.0mm(t=0.2mm)

Features

- The smallest 3 color type LED in the world^{*} PICOLED[™]-RGB ·4pin, 6pin types available
- ·Low height contributes to the improvement of color mixture
 - * Investigated Aug. 2009

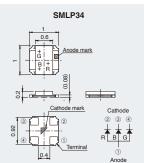


Specifications

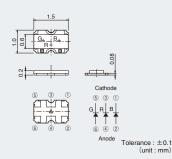
				Abso	lute Maxim	um Rating	s (Ta=25°C)			E	Electric	al and	Optica	l Chara	acterist	ics (Ta	=25°C))	
Part No.	Chip Structure	Emitting Color	Power Dissipation PD(mW)	Forward Current IF(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)				/oltage VF IF(mA)						th λD I⊧(mA)	Lumino Min. (mcd)	ous Inte Typ. (mcd)	nsity Iv IF(mA)
	InGaN	Blue							3.0				465	470	475		9	18	
SMLP34RGB1W (3 colors, 4 terminals)	on SiC	Green	-	20	100* ¹	5	-30 to +85	-40 to +100	3.1	5	100	5	520	527	535	5	22	45	5
	AlGaInP on GaAs	Red							2.1				620	624	629		14	28	
	InGaN	Blue							3.0				465	470	475]	9	18	
SMLP36RGB1W (3 colors, 6 terminals)	on SiC	Green	-	20	100*1	5	-30 to +85	-40 to +100	3.1	5	100	5	520	527	535	5	22	45	5
	AlGaInP on GaAs	Red							2.1				620	624	629		14	28	

*1:Duty1/20, 1ms *2:Reference

Dimensions



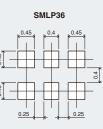
SMLP36



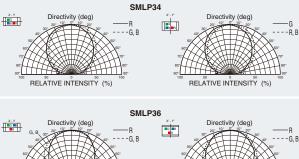
Recommended Solder Pattern Viewing Angle

SMLP34

0.45 0.4 0.45 0.45 .45



RELATIVE INTENSITY (%)



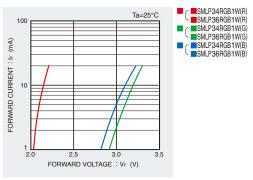
* PICOLEDTM is ROHM's pending trademark.

(unit : mm)

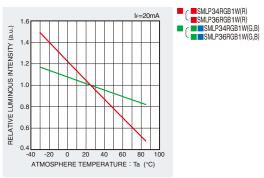
RELATIVE INTENSITY (%)

Electrical Characteristics Curves

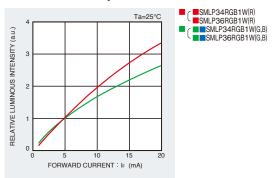
Forward Current-Forward Voltage



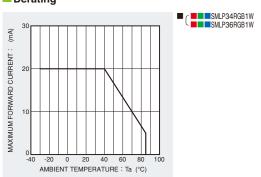
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Rank Reference of Brightness

SMLP34RGB

													(*	Ta=25°C, I	F=5mA)
	Package size (mm)	Height (mm)	Luminous Intensity (mcd) Emitting Color	А	В	С	D	Е	F	G	Н	J	к	L	М
A COLORADO	1010		Blue	9 to 18	18 to 36	9 to 18	18 to 36								
Mini-mold Chip LEDs	1010 1510	0.2	Green	22 t	o 36	36 t	o 56	56 t	o 90	22 t	o 36	36 t	o 56	56 to	o 90
	1310		Red			14 t	o 28					28 t	o 56		

SMLP36RGB

													(1	Га=25°С, I	F=5mA)
	Package size (mm)	Height (mm)	Luminous Intensity (mcd) Emitting Color	А	В	С	D	E	F	G	н	J	к	L	м
			Blue	9 to 18	18 to 36	9 to 18	18 to 36								
Mini-mold Chip LEDs	1010 1510	0.2	Green	22 t	o 36	36 t	o 56	56 t	o 90	22 t	o 36	36 t	o 56	56 t	o 90
	1310		Red			14 t	o 28					28 t	o 56		

Part No. Explanation

Brightness rank (At three color lighting simultaneously <for white LED>)* 3 3 G 4 В 1 R Special Code Resin Color Taping Specifications Series name Package name Terminal Type Emitting Color W MilkyWhite R Red:624nm 3 Cathode at sprocket hole side G Green:527nm B Blue:470nm Brightness rank (At three color lighting simultaneously <for white LED>)* 3 Β 3 1 S Ρ 6 R G IV Emitting Color Special Code Resin Color Taping Specifications Series name Package name Terminal Type R Red:624nm W MilkyWhite 3 Cathode at sprocket hole side G Green:527nm B Blue:470nm Concerning the Brightness rank
Please refer to the rank chart above for luminous intensity classification.

- · Part name is individual for each rank.
- When shipped as sample, the part name will be a representative part name. General products are free of ranks. Please contact sales if rank appointment is needed.

Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags. Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request. Please contact the nearest sales office or distributer if necessary.

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