

# SML-P24 Series

## PICOLED™-Duo

1010(0404)  
 1.0×1.0mm(t=0.2mm)


### Features

- Ultra compact 2-color type LED 1.0×1.0
- Thinnest in the world\* t=0.2mm
- Low height contributes to the improvement of color mixture

\* Investigated Aug. 2009

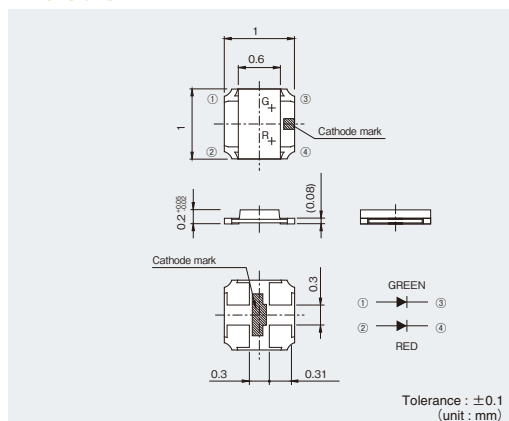
Color Type

### Specifications

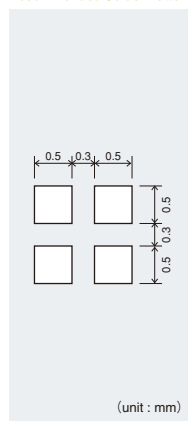
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward IFF(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF Typ.(V)	IF(mA)	Reverse Current IR Max.(μA)	VR(V)	Dominant Wavelength λD Min.*2(nm)	Typ.(nm)	Max.*2(nm)	Luminous Intensity Iv Min.(mcd)	Typ.(mcd)	IF(mA)	
 SML-P24MUW	AlGaInP on GaAs	Green	54	20	100 <sup>1</sup>	5	-40 to +85	-40 to +100	2.2	20	100	4	569	572	575	20	10	21	20
		Red	52						2.1				615	620	625		25	52	

\* 1:Duty1/10, 1kHz \* 2:Reference

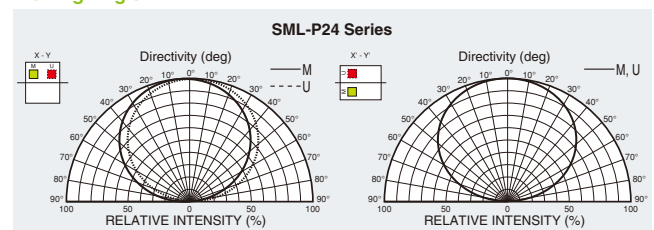
### Dimensions



### Recommended Solder Pattern



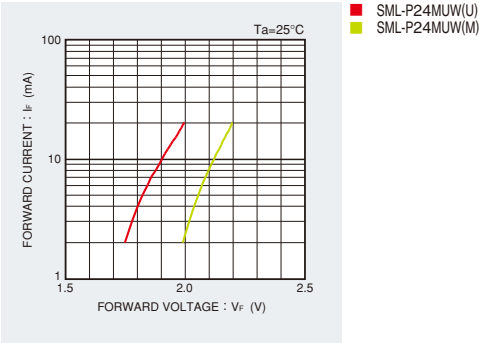
### Viewing Angle



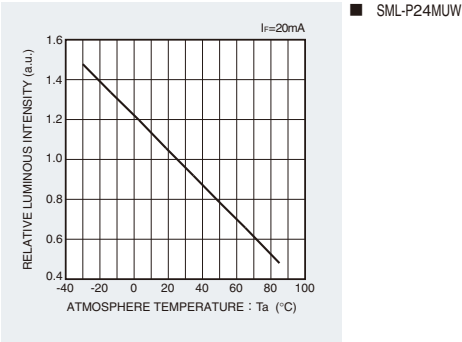
\* PICOLED™ is ROHM's pending trademark.

Electrical Characteristics Curves

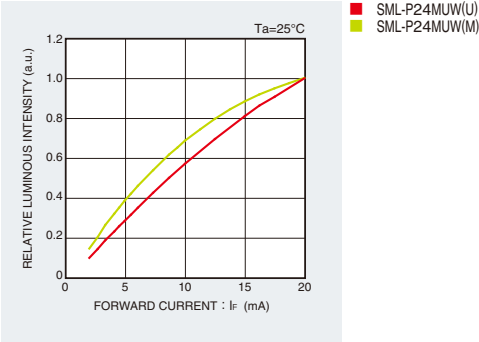
Forward Current-Forward Voltage



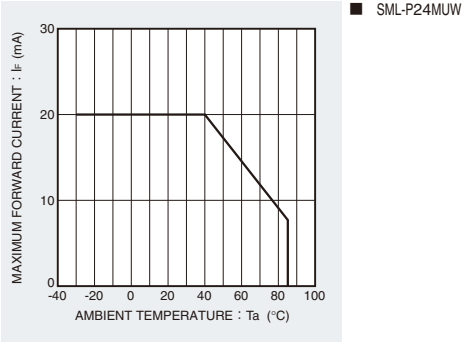
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating

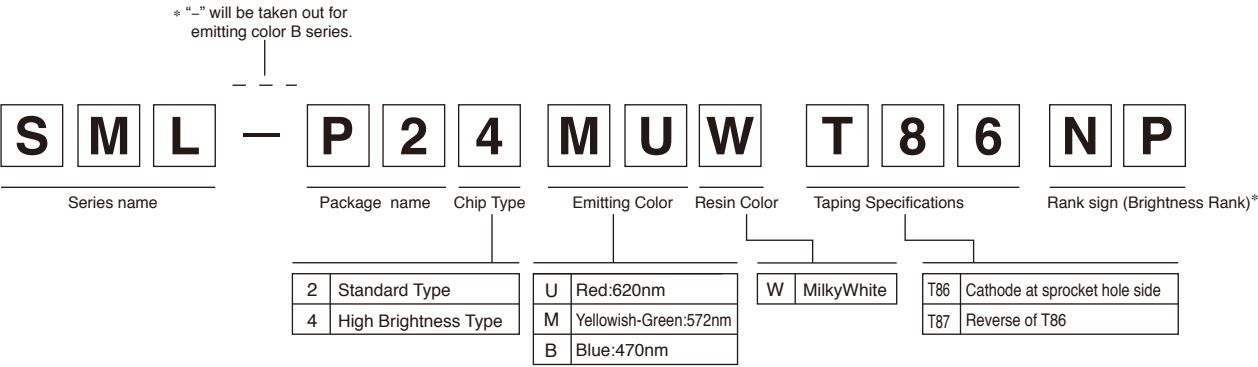


Rank Reference of Brightness

SML-P24MUW

				(Ta=25°C, If=20mA)									
	Package size (mm)	Height (mm)	Luminous Intensity (mcd)	K	L	M	N	P	Q	R	S	T	U
				4.0 to 6.3	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	90 to 140	140 to 220	220 to 360
Mini-mold Chip LEDs	1010	0.2	Red										
			Yellowish Green										

Part No. Construction



- \* 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 distributor if necessary.

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