

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

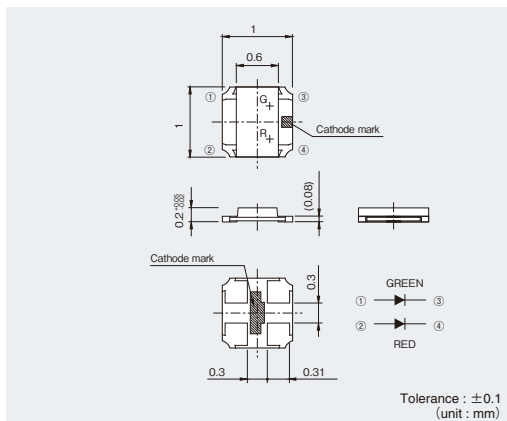


Specifications

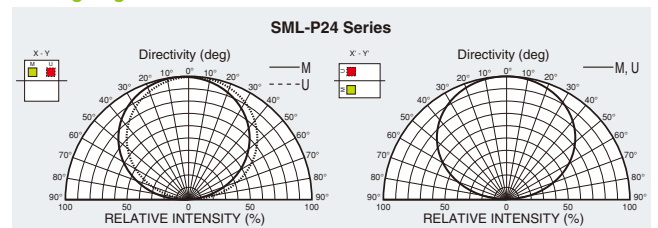
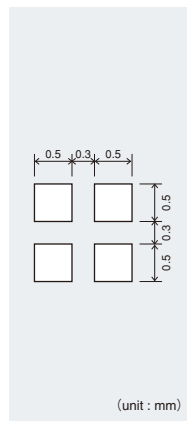
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd (mW)	Forward Current IF (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage VR (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λ D			Luminous Intensity Iv			
								Typ. (V)	IF (mA)	Max. (μA)	VR (V)	Min.*2 (nm)	Typ. (nm)	Max.*2 (nm)	I _F (mA)	Min. (mcd)	Typ. (mcd)	I _F (mA)	
■ SML-P24MUW	AlGaInP on GaAs	Green	54	20	100 ^{*1}	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



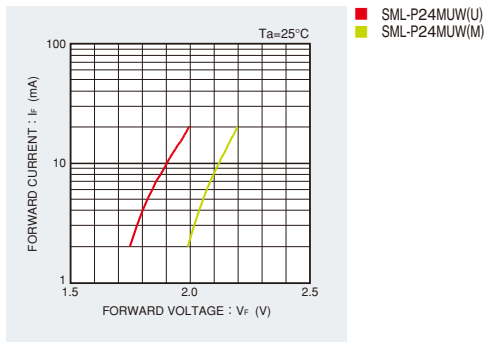
Recommended Solder Pattern Viewing Angle



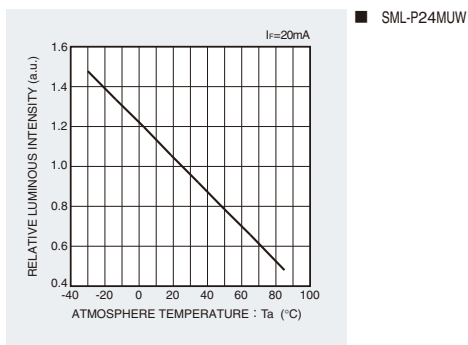
* PICOLED™ is ROHM's pending trademark.

Electrical Characteristics Curves

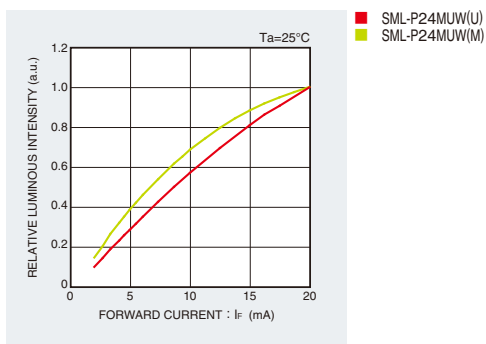
Forward Current-Forward Voltage



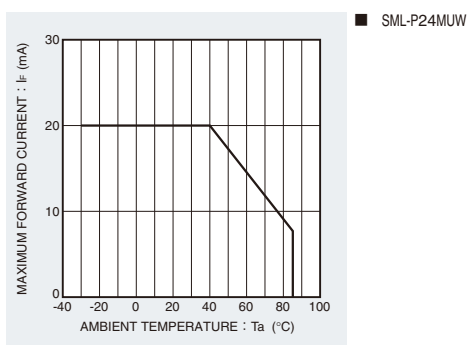
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



SML-P24 Series

Rank Reference of Brightness

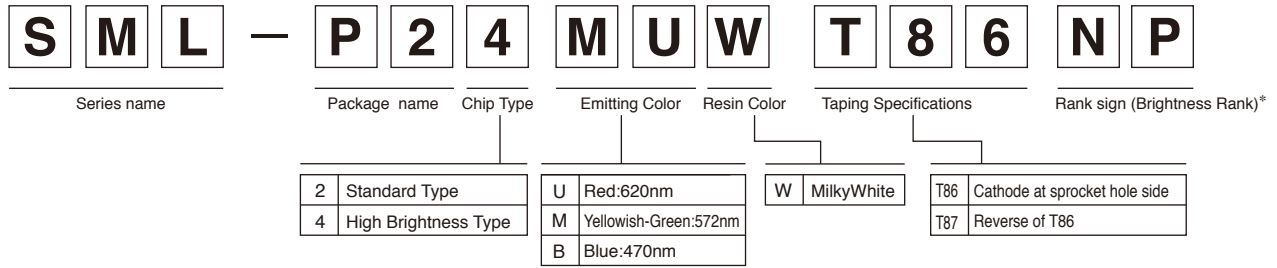
SML-P24MUW

(Ta=25°C, If=20mA)

Mini-mold Chip LEDs	Package size (mm)	Height (mm)	Luminous Intensity (mcd)	Rank										
				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		
			Red											
			Yellowish Green											

Part No. Construction

* "-" will be taken out for emitting color B series.



- * 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.

Notes

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