

MSL0301RGBW / MSL0401RGBW

GC-RGB Series

Features

- Compact High Brightness Full Color
- Ensures excellent color mixing
- The industry's smallest reflector-type RGB LED.
- Both 4- and 6-pin types are available.

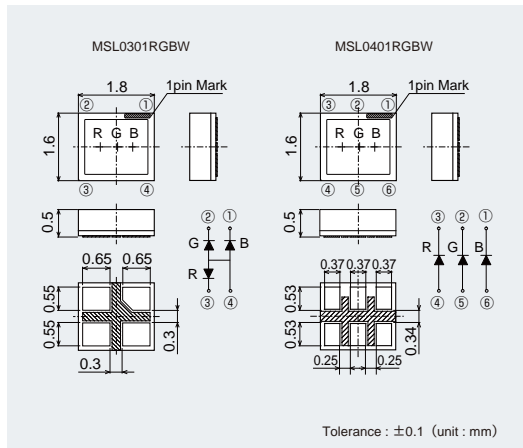


Specifications

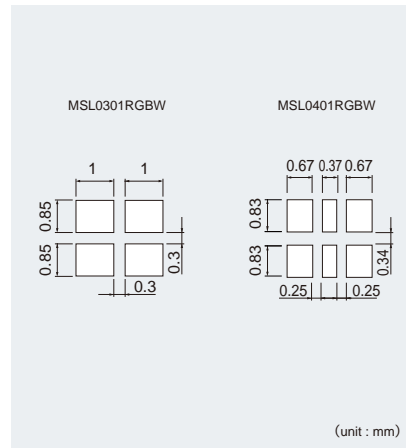
Part No	Element Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)									
			Permissible Loss Po(mW)	Forward Current If(mA)	Peak Forward Current IFP(mA)	Reverse Voltage VR(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage VF		Reverse Current IR		Dominant Wavelength λD			Luminous Intensity Iv		
								Typ.(V)	If(mA)	Max.(μA)	VR(V)	Min.(nm)	Typ.(nm)	Max.(nm)	If(mA)	Min.(mcd)	Typ.(mcd)	If(mA)
■ MSL0301RGBW (4-pin)	AlGaInP	Red	104	40	100*1	5	-40 to +85	-40 to +100	2.1	20	10	618	624	630	20	220	400	
	InGaN	Green	120	30					3.4			519	527	536		360	550	
		Blue	114	30					3.3			464	470	476		90	180	
■ MSL0401RGBW (6-pin)	AlGaInP	Red	104	40	100*1	5	-40 to +85	-40 to +100	2.1	20	10	618	624	630	20	220	400	
	InGaN	Green	120	30					3.4			519	527	536		360	550	
		Blue	114	30					3.3			464	470	476		90	180	

* 1: Duty1/5, 1kHz

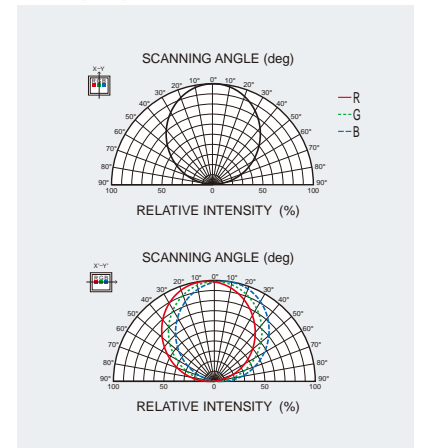
Dimensions



Recommended Solder Pattern

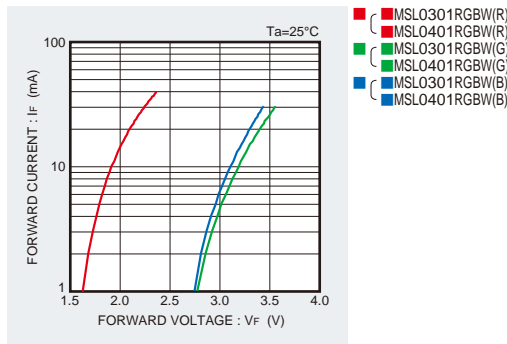


Viewing Angle

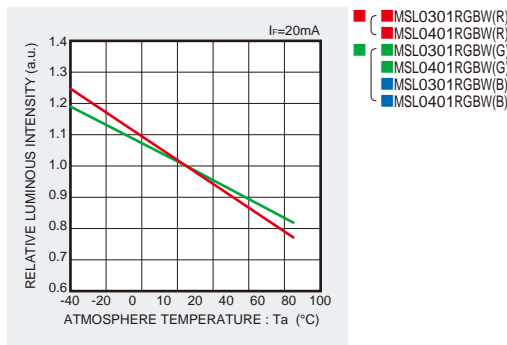


Electrical Characteristics Curves

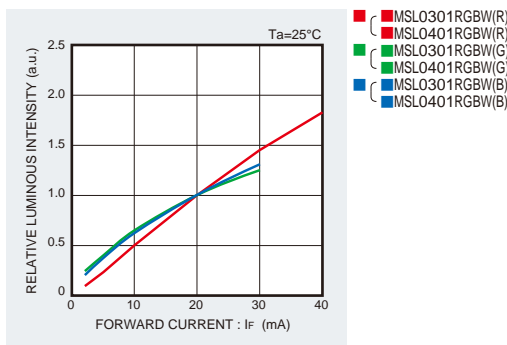
Forward Current-Forward Voltage



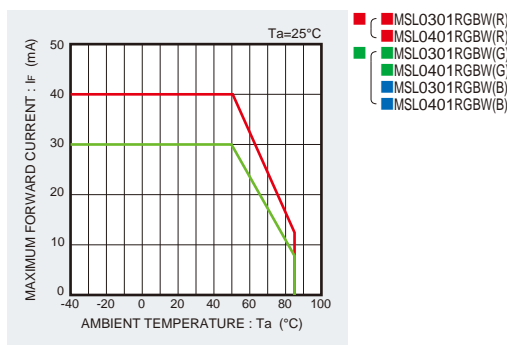
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
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- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
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