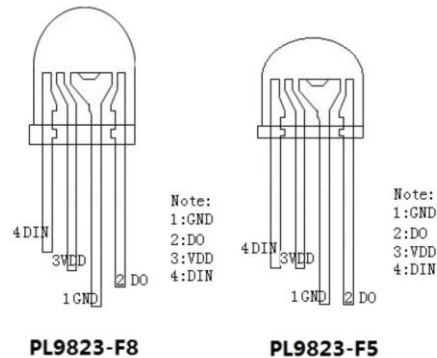


Shift register programmable RGB Lamp

Feature

- Power supply:DC4.5V~6V
- Integrate RGB LEDs with Control IC at same body
- Support 256 dimming level for each color
- Internal frequency up to 800KHz
- Single wire signal transmission(clock and Date)
- To be controlled by external MCU to achieve target image
- Available on ϕ 5mm, ϕ 8mm and SMD5050 Package type
- No external component required

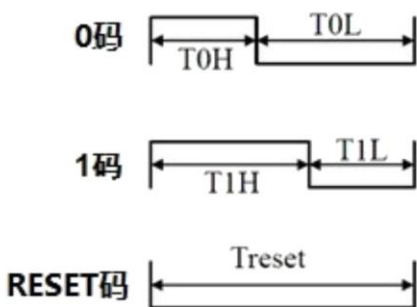
Package Type



Package selection

PART NO.	Package
PL9823-F8	ϕ 8mm
PL9823-F5	ϕ 5mm
PL9823-5050	SMD5050

Timing waveform



Name	Description	Typically	Allowable error
T0H	0 code,high level time	0.35us	\pm 150ns
T1H	1 code,high level time	1.36us	\pm 150ns
T0L	0 code,low level time	1.36us	\pm 150ns
T1L	1 code,low level time	0.35us	\pm 150ns
RES	RESET code	50us	

Die LEDs sind Signal-kompatibel zu WS2812.
Bei der Programmierung ist zu beachten, dass ROT und GRÜN im Vergleich mit den WS2812 vertauscht sind.

Composition of 24bit data:

R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2	B1	B0
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Note: Follow the order of RGB to sent data and the high bit sent at first.



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