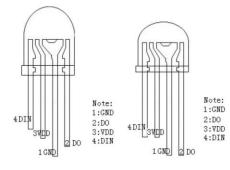


Shift register programmable RGB Lamp

Feature

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

Package Type



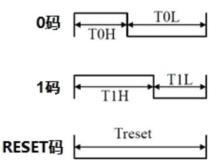
PL9823-F8

PL9823-F5

Package selection

PART NO.	Package
PL9823-F8	Φ8mm
PL9823-F5	Φ5mm
PL9823-5050	SMD5050

Timing waveform



Name	Description	Typically	Allowable erro					
тон	0 code,high level time	0.35us	±150ns					
T1H	1 code,high level time	1.36us	±150ns					
TOL	0 code,low level time	1.36us	±150ns					
T1L	1 code,low level time	0.35us	±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:

	mp o.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 101																			
R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	В6	B5	B4	В3	B2	B1	B0

Note: Follow the order of RGB to sent data and the high bit sent at first.



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