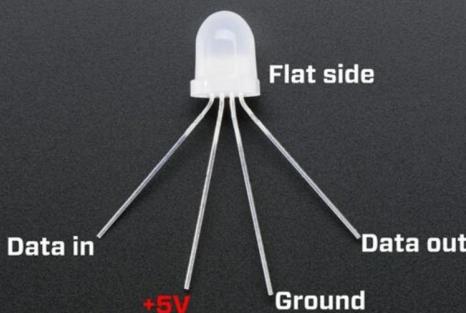


Store: RAZEND Official Store 98.3% Positive feedback [Follow](#)

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APA106



Best Price 2~1000Pcs IC APA106 F8 8mm / F5 5mm Round RGB Full Color Neo pixel Arduino Frosted led chip (like WS2812B) 5V-in L...

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Price: US \$1.38 - 198 / Pack

Discount Price: **US \$1.10 - 158.40** / Pack (-20%) 2 days left

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Color:

5mm 2pcs 5mm 10pcs 5mm 50pcs 5mm 100pcs 5mm 500pcs

5mm 1000pcs 8mm 2pcs 8mm 10pcs 8mm 50pcs 8mm 100pcs

8mm 500pcs 8mm 1000pcs

Shipping:

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Item specifics

Brand Name: RAZEND

Item Type: Strip

Power Source: DC

Certification: ce,RoHS,CCC

Strip type: SMD

Average Life (hrs): 50000

Waterproof: No

LED Chip Brand: Edison

Model Number: APA106 F5/F8

Occasion: Living Room

LEDs Number/M: 30 pcs/m

Power Consumption (W/m): -

Voltage: 5v

LED Chip Model: APA106

Specifications (light beads / m): APA106

Product Description

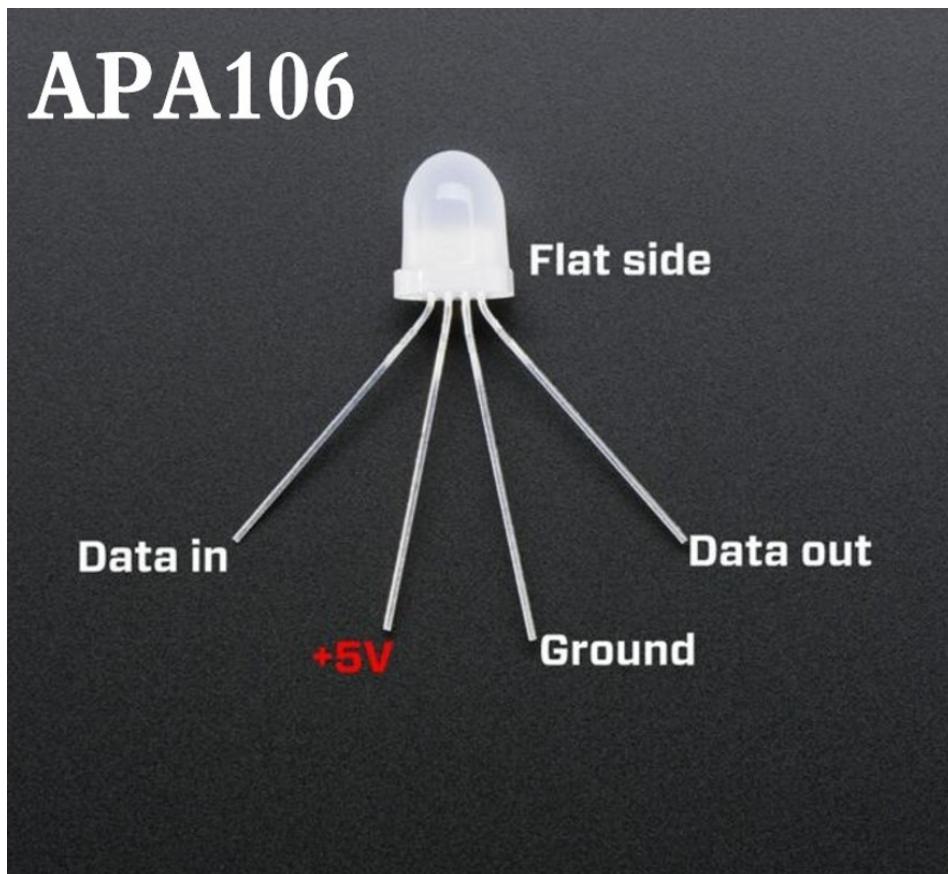
APA-106 is an RGB LED with built in controller IC (a.k.a. addressable LED.)

It uses same protocol as the popular **WS2811** or **WS2812** LEDs, so code can be reused.

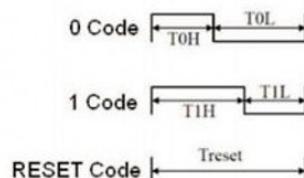
Perfect for the breadboard or any through hole project.

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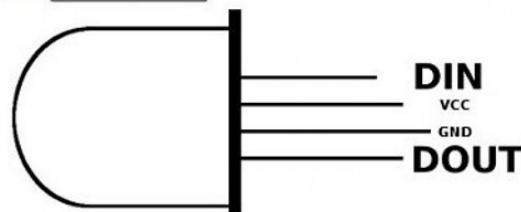




Timing waveform



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



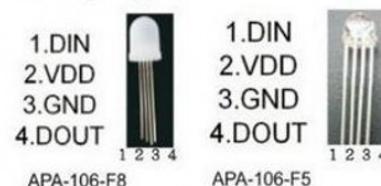
APA-106

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 800K Hz
- Single wire signal transmission(clock and Data)
- To be controlled by external MCU to achieve target image
- Available on φ5mm, φ8 mm
- No external component required

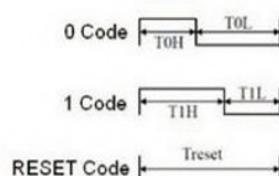
Package Type



Package selection

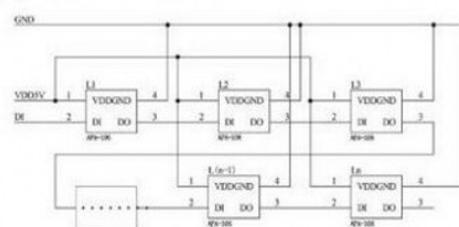
PART No.	Package
APA-106-F8	φ 8
APA-106-F5	φ 5

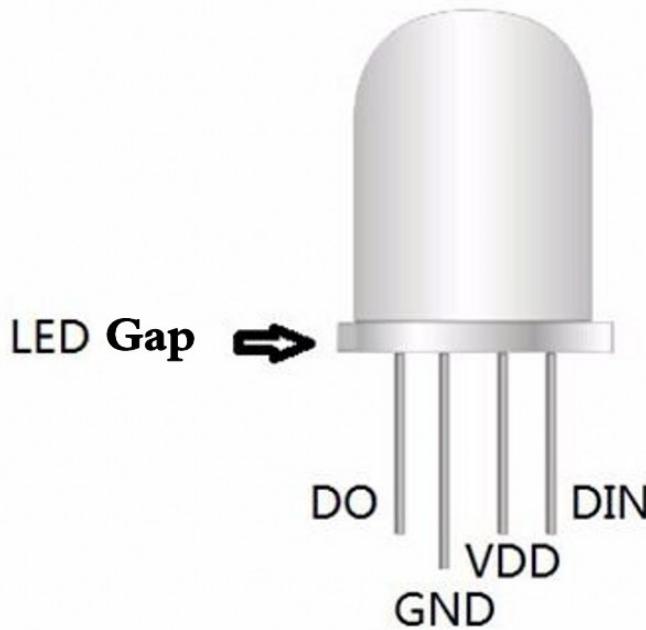
Timing waveform



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

Application Note





F5,F8 apa106 led diode ,and series product ,such as led strip ,led string ,led module ,led display board and so on

Features:

8MM Round LED
4.5V-6V power supply
256 dimming level for each color
800kHz internal frequency
Single wire control
No external components required
The gray level adjusting circuit (256 brightness adjustable)
The on-chip voltage regulator tube, power supply end series resistance to IC VDD feet, without external regulator
The built-in power on reset circuit
The PWM control terminal can achieve the 256 level adjustment, scanning frequency of not less than 400Hz/s
The cascade interface serial interface, via a signal line to complete the receiving and decoding of data

When the refresh rate of 30 frames per second, the number of cascade low speed mode is not less than 512 points, the high-speed mode is not less than 1024 points

The data transmission speed of up to 800Kbps

Package included:

According to the products you buy

Packaging Details

Unit Type: Pack

Package Weight: 0.3kg (0.66lb.)

Package Size: 1cm x 1cm x 1cm (0.39in x 0.39in x 0.39in)

Transaction History

217 transactions in last 6 months. Sort by latest ▾

Buyer	Transaction Information
A3 M***. NL	1 pack 19 Mar 2019 16:45
A0 M***. DE	1 pack 19 Mar 2019 15:54
A1 U***. US	1 pack 18 Mar 2019 05:36
A2 T***. CA	1 pack 16 Mar 2019 07:29
A3 P***. ES	1 pack 16 Mar 2019 03:20
A3 V***. KZ	1 pack 16 Mar 2019 01:28
A3 E***. NL	1 pack 16 Mar 2019 00:42
A4 B***. NL	1 pack 15 Mar 2019 01:30

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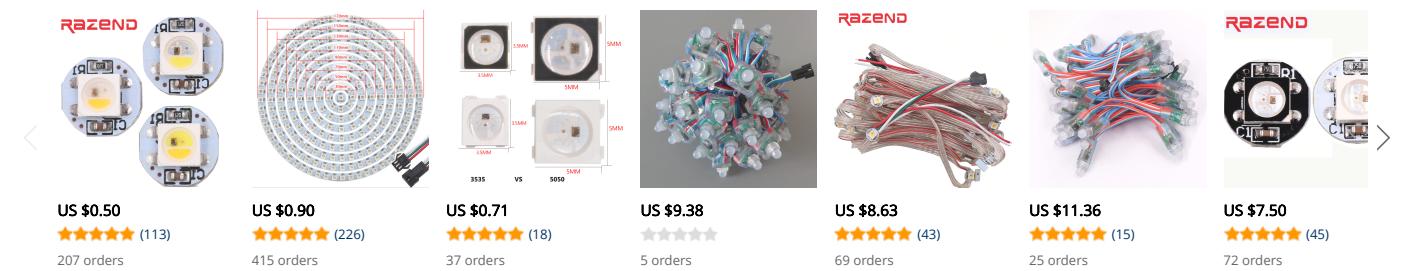
Buyer	Transaction Information
A1 T***. NL	1 pack 14 Mar 2019 13:24
A3 J***. BE	1 pack 14 Mar 2019 05:24
A2 V***. RU	1 pack 13 Mar 2019 06:27
A1 P***. NL	1 pack 12 Mar 2019 15:08
A0 R***. US	1 pack 12 Mar 2019 11:32
A0 R***. US	1 pack 12 Mar 2019 11:32
A2 H***. US	1 pack 12 Mar 2019 08:52
A3 E***. FR	1 pack 12 Mar 2019 08:50
A2 H***. NL	1 pack 10 Mar 2019 04:06
A1 J***. US	1 pack 09 Mar 2019 10:56
A2 P***. CZ	1 pack 06 Mar 2019 14:23
A2 M***. CH	1 pack 05 Mar 2019 09:14

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