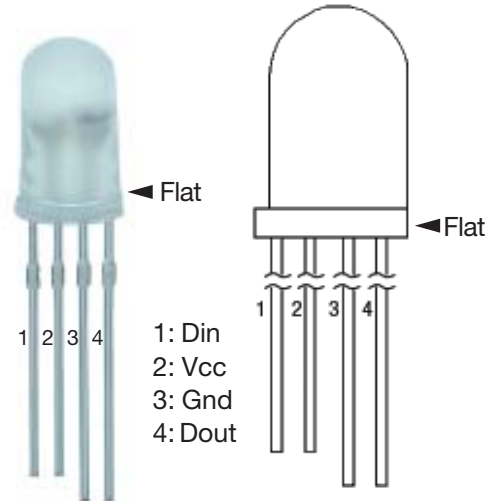


35762-OP

5mm Programmable RGB LED

Sold in Pack of 10

Note: These are not simple LEDs,
Must be sent Formatted serial data
from a controller such as Arduino, Raspberry-Pi etc.
24bit field controls the Red, Green & Blue LED.
4 lead P9823 5mm RGB Pixel LED that you can program the color & Intensity.
Colors: 16 million
Intensity: 256 levels
4leads, Vcc, Gnd Din & Dout.
Easy to cascade into longer strings.
Power: 5VDC
Current: ~100mA Peak/5mm LED
Viewing Angle: 100-120deg.
Max Data String: 1024 LEDs
Data Rate: 800KBPS
Red LED: 625nm ~600mcd
Green LED: 520nm, ~1300mcd
Blue LED: 465nm, ~450mcd
Compatible with WS-2811, SK-6812, UCS-1903



USEFUL LINKS

https://github.com/adafruit/Adafruit_NeoPixel

<https://learn.adafruit.com/adafruit-neopixel-uberguide/arduino-library-use>

<http://satujamsaja.blogspot.com/2016/06/arduino-controlling-pl9823-f8-rgb-led.html>

<https://www.instructables.com/id/Multicolor-Knight-Rider-with-RGB-PL9823-LED-Arduino/>

http://www.samuraicircuits.com/MediaWiki/HTMLimages/Pictures/BulletPixels_Datasheet_2014-06-13.pdf

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35762-OP

5mm Programmable RGB LED

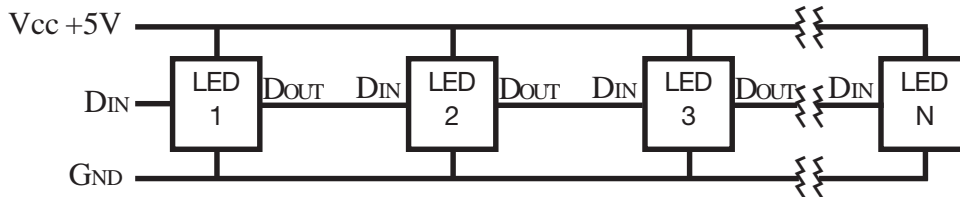
TIMING

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

Three/N LED Data Pattern Example

Number of 24 Bit Bytes equals Number of LEDs in string

Serial Loads LED 1 then Byte is dropped and Byte 2 passed to LED 2 and dropped, Byte 3 to LED 3, Dropped and continues through Last LED



FORMAT

