Electronic Parts

VS1838B Datasheet and Pinout – IR Remote Control Infrared Receiver

IC / IR receiver

The **VS1838B** belongs to a sort of miniaturized receiver for infrared remote control systems with the high speed PIN phototransistor and the full wave band preamplifier, suitable for infrared communications or remote control applications where high receiver sensitivity and ambient light rejection is required. It comprises of a PIN diode, a preamplifier and other signal conditioning circuitry integrated in the package. This makes the device easily interfaced with a Microcontroller. Depending on the circuit project or application, this device can be a superior alternative to using an infrared phototransistor as it relieves you of the headache of designing a signal conditioning analog circuit when using the infrared phototransistor.

The VS1838B IR receiver is a standard IR remote control receiver series for 3V supply voltage with excellent suppression of disturbance signals, with low power consumption and an easy to use package. It mates well with embedded electronics and can be used with common IR remotes.

VS1838B Datasheet

According to VS1838B datasheet, it features:
IR Remote Control Receiver
Built-in Filter at 38KHz
Compatible with Arduino, Raspberry Pi
Simple interface to use it
Working Voltage: 2.7 – 5.5V DC
Receiver Distance: 22 – 25m
Pin Pitch: 2.54mm
Pin Length: 23mm
Size: 7.4mm x 6.2mm x 5.3mm (LWH)

VS1838B IR sensor is used in particular circuits, the only complication is the strict requirement of the infrared. transmitter signal.

Click to view and download VS1838B Datasheet.

VS1838B Pinout

VS1838B has in total 3 pins. However, you need to know functions of every pins before it can work better for you.

The VS1838B pinout diagram is as shown in the picture below:

and the pin configurations of VS1838B are list as following:

Pin 1, Out

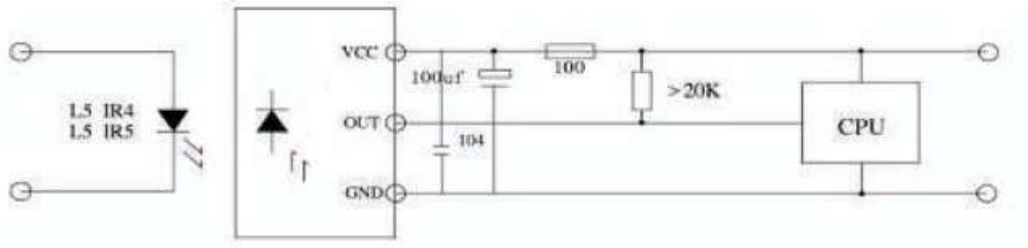
Pin 2, GND

Pin 3, VCC

VS1838B Circuit

Circuit schematic can help us to understand better about how a component or chip is used and worked in circuits. It's a reference to make them work in an actual circuit.

The following VS1838B circuit diagram is a sample for reference.



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