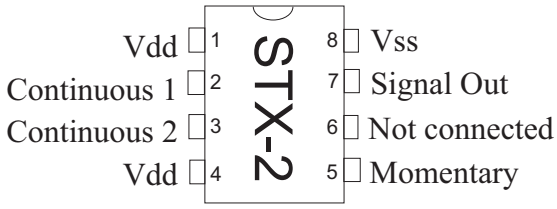
STX-2

2 Code Remote Control Transmitter Chip

General Description

While the line of SIS switching chips will work with any infrared (IR) remote control, there are certain applications where it is necessary to embed an IR transmitter for simple ON/OFF or UP/DOWN types of solutions. The STX-2 makes implementing such solutions simple. The STX-2 will work with any SIMEREC SIS chip.



Vdd (with respect to Vss): 2-5.5V
Max current on I/O pins: 25 ma
Package: 300mil wide Plastic DIP

Current consumption (Vdd=5V): < 2mA
38kHz carrier frequency.

Normal Operation of the STX-2

Codes are transmitted via 38 KHz carrier through Signal Out (pin 7).

High-to-low transition on Momentary (pin 5) causes code 1 to be transmitted once.

Low-to-high transition on Momentary (pin 5) causes code 2 to be transmitted once.

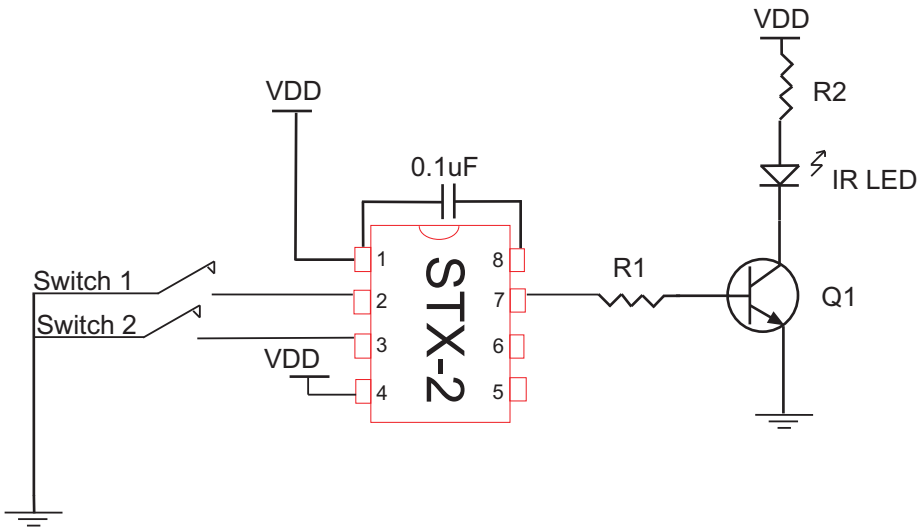
When Continuous 1 (pin 2) is held low, code 3 is transmitted continuously until pin 2 is released.

When Continuous 2 (pin 3) is held low, code 4 is transmitted continuously until pin 3 is released.

Note that Momentary, Continuous 1, and Continuous 2 pins have internal pull-ups, so it is not necessary for you to add external pull-ups.

To use the STX-2 with SIS receiver chips, you simply “teach” the SIS chip the STX codes, just as you would with any IR remote.

Application Example



Example1:

VDD = 5V
Q1 = 2N2222A
IR LED = TSAL6400
R1 = 1K Ohm
R2 = 33 Ohm

Example2:

VDD = 3V
Q1 = 2N2222A
IR LED = TSAL6400
R1 = 1K Ohm
R2 = 10 Ohm

If you have questions or need assistance, contact us: SUPPORT@SIMEREC.com