

## **Circuit's Operation Description for BD10102**

**Operation Frequency: 27.045MHz**

**Modulation Type: FSK**

The TX of the mouse is mainly consisted of optical IC (U3), MCU & RF circuit (U1), Amplifier Q2.

U1, L2 and D2 provide the circuit with a stable DC 3 V. Y1 and U1 are for RF modulation, U1 receives signals of function keys when working. When the mouse moved by a user, Optical sensor U3 detects the movement and send a signal to U1. All signals are processed in U1 and encoded. Y1 is an oscillator of RF generator with frequency 27.042MHz. The frequency is modulated to frequency 27.045MHz, then amplified by Q2 and transmitted by antenna.

SW1 I.D is a ID switch. When it is switched on, U1 transmits an ID code to the receiver which can recognize the ID for communication.