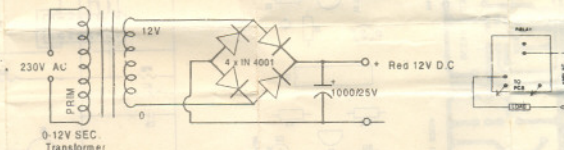


# INFRARED REMOTE CONTROL ON / OFF SWITCH

Using any T.V. Remote Control can operate this remote control receiving unit. We know T.V. remote control emits infrared light pulses of frequency 36 KHz. This project can sense 36 KHz infrared signals and activate / de-activate a relay connected at its output.

After connecting 12 Volts power supply to the circuit, direct T.V. Remote Control to the black I.R. sensor of receiving unit. Press any of the buttons of remote control. Then relay will be activated. If remote control button is pressed again relay will be deactivated. Range of

operation is more than 35 feet. Load to be controlled can be connected via normally opened contacts of the relay.



## PARTS LIST

### RESISTOR

R1,R2	-	1K
R3	-	10K
R4,R6,R11	-	100K
R5	-	150K
R7	-	220K
R8	-	47E
R9	-	5K6
R10	-	18K

### CAPACITOR

C1,C6,C10	-	100/25V
C2	-	1/50V
C3,C4,C7	-	.1Kpf
		(104) 100Kpf
C5	-	.22Kpf
		(224) 220Kpf
C8	-	2.2/50V
C9	-	.01Kpf
		(103) 10Kpf

### SEMICONDUCTOR

IC1(U1)	-	CD 4027
IC2(U2)	-	NE 555
IC3(U3)	-	78L05
IC Base 1	-	16 Pin
IC Base 2	-	8 Pin
D1	-	1N 4007
Led 1	-	5mm Red Led
Q1	-	Bel 187
Q2	-	BC 558
Q3	-	BC 547
IFR	-	TV Sensor
Relay	-	12V-1C/O
		PCB Mounting
		Suggar Cube
PCB		VK 558 PCB

