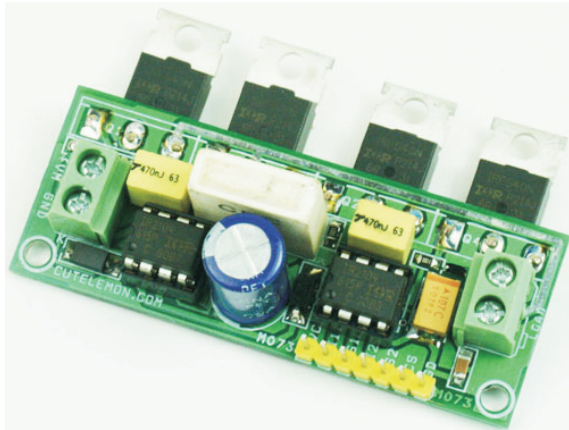
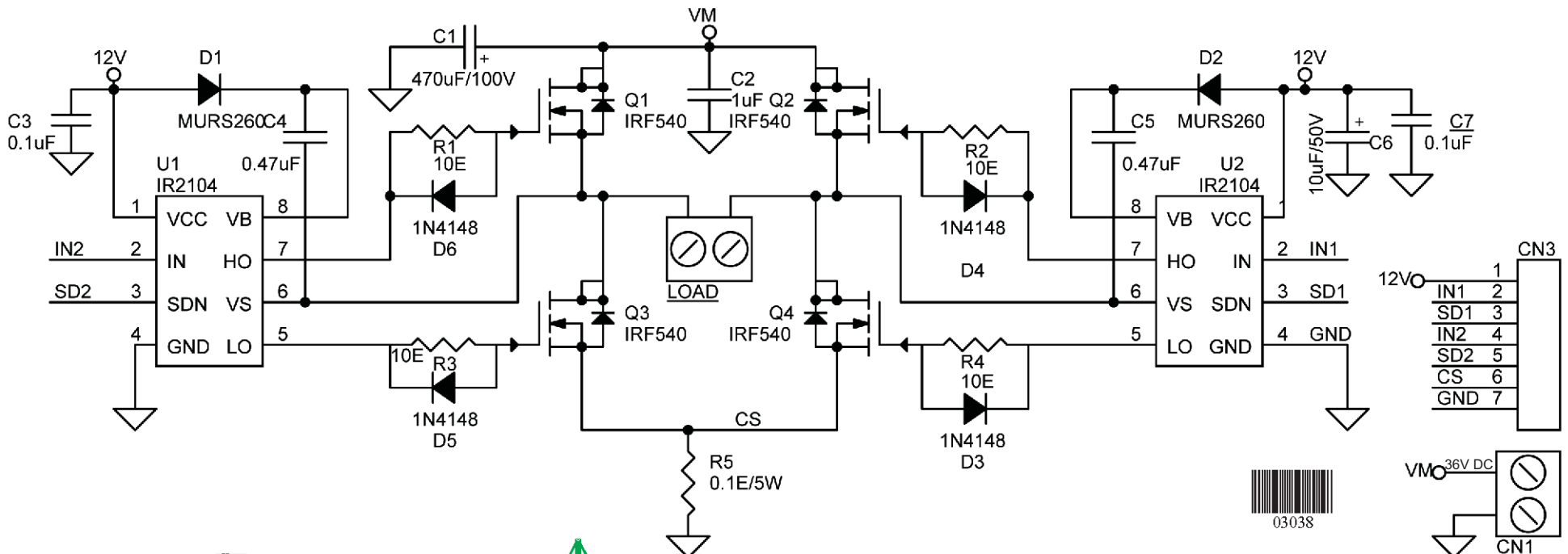
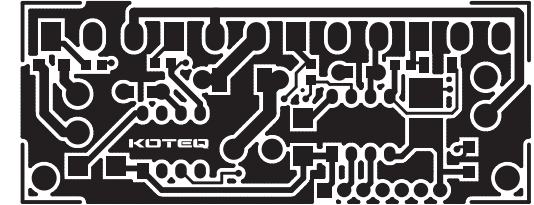
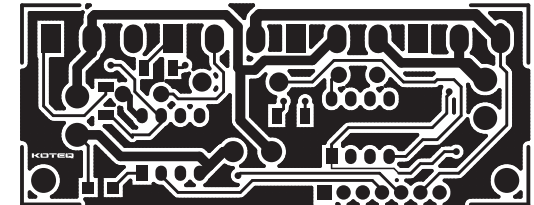
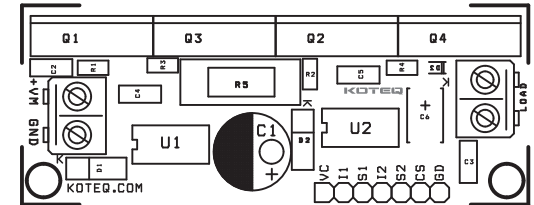


10AMPS H-BRIDGE FOR DC MOTORS BASED ON IR2104



1	2	CN1, CN2 (LOAD)	2 PIN SCREW TERMINAL
2	1	CN3	7 PIN HEADER CONNECTOR
3	1	C1	470uF/100V
4	1	C2	1uF
5	2	C3,C7	0.1uF
6	2	C4,C5	0.47uF
7	1	C6	10uF/50V
8	2	D1,D2	MURS260
9	4	D3,D4,D5,D6	1N4148 SMD
10	4	Q1,Q2,Q3,Q4	IRF540
11	4	R1,R2,R3,R4	10E, SMD 1206 5%
12	1	R5	0.1E/5W
13	2	U1,U2	IR2104

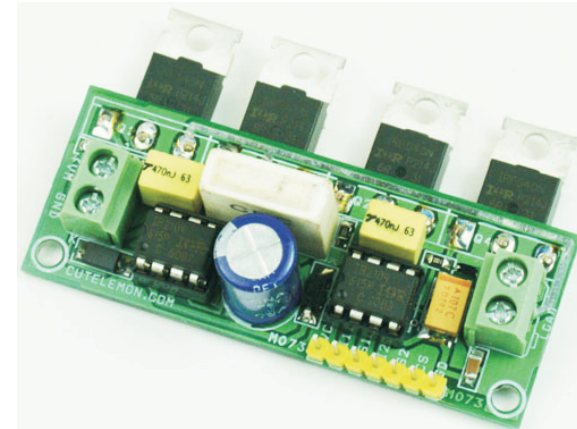


10AMPS H-BRIDGE FOR DC MOTORS BASED ON IR2104

H-Bridge has been designed around IR2104 IC from international Rectifier, The board has been made mainly for DC-Motor application, The driver can handle load up to 8-10Amps, I have tested this board with 36V DC supply . The circuit uses N Channel IR540 MOSFETS from international rectifier. IR540 required large heat sink for 10Amps load. Board has shunt resistor to provide voltage proportional to current flowing through load. This can be later amplify and connect it to microcontroller.

Features

- Motor DC Supply 36V DC (Screw Terminal Connector)
- Logic Supply 12V DC
- Load 8-10Amps (Screw Terminal Connector)
- Header Connector for Inputs (7 Pin Header Connector)
- On Board Shunt Resistor for Current feedback
- PWM Frequency 10 to 20 KHz
- Duty Cycle 0-99%
- Logic Pins support 3.3V, 5V, 12V (Inputs and PWM)



03038

60V DC