LanmiLab H-BRIDGE
High Power High Speed MOSFET H-Bridge
Arduino Add-On Compatible
github.com/lanmilab/H-BRIDGE
twitter.com/lanmiLab

P2
D1/TX
D0/RX
RESET
GND
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12

P1
VIN
GND
RESET
+5V
A7
A6
A5
A4
A3
A2
A1
A0
AREF
3V3
D13

Arduino_Nano_v3.x_plug
M1

VDD
VCC
GND

PWM1
JP1
D9
D10
JP2
PWM2
D9
D10

VOF1
VOF2
VOSF1
VOSF2

VO1 R9 47K
VO2 R10 47K
VOS1 R11 47K
VOS2 R12 47K

C15 1.8nF GND
C16 1.8nF GND
C17 1.8nF GND
C18 1.8nF GND

RN1
VOF1
VOF2
VOSF1
VOSF2
3K3
GND

HS1 HS2 HS3 HS4
GND GND GND GND

C9 4.7uF VD
C3 100nF/50V GND
D5 Q1 D1
4R7 R1
VOS1
L1 4.7uH VO1
C1 220nF GND
4R7 R2
D6 Q2 D2
GND

U1
VDD HB
HI HO
LI HS
VSS LO

VDD
C5 100nF/50V
GND
C6 100nF/50V
GND

U3A
JMPR1
JPC1 JumperCap

U3B
47K R5
GND

J1
Screw_Terminal_01x04
GND
PWM1
PWM2
VCC
4K7 R7
4K7 R8
GND

C10 4.7uF VD
C4 100nF/50V GND
D7 Q3 D3
4R7 R3
VOS2
L2 4.7uH VO2
C2 220nF GND
4R7 R4
D8 Q4 D4
GND

U2
VDD HB
HI HO
LI HS
VSS LO

VDD
C7 100nF/50V
GND
C8 100nF/50V
GND

U3E
JMPR2
JPC2 JPC3

U3F
47K R6
GND

Screw_Terminal_01x04
J2
GND

J4
Screw_Terminal_01x02
GND

J3
Barrel_Jack_Switch
VD
C11 1000uF/63V GND
C12 1000uF/63V GND
U4 VI VO GND
C13 100uF/63V GND
VDD
U5 VI VO GND
C14 100nF/50V GND
VCC
U3G
GND

U3D GND
U3C GND

H1 H2 H3 H4

Sheet: /
File: LanmiLab_H_BRIDGE.sch
Title: MOSFET H-Bridge
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