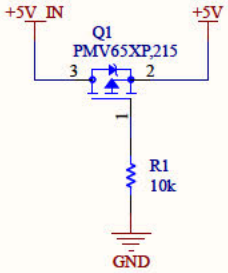
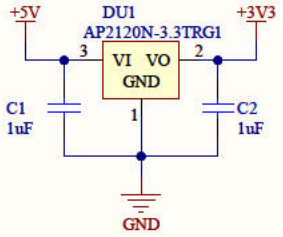
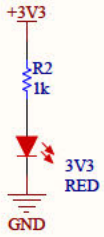
+3.3V POWER SUPPLY

Reverse polarity protection

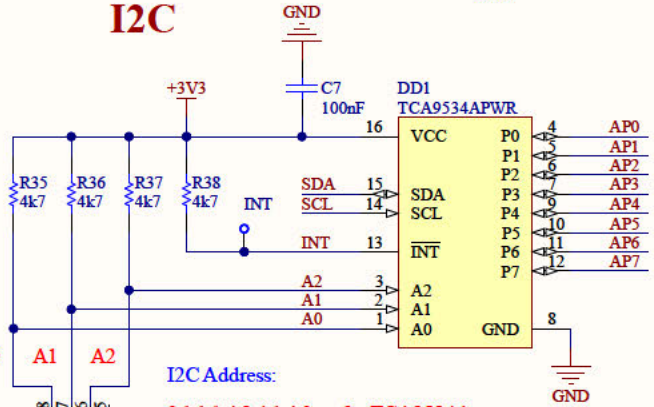


AP2120N-3.3TRG1
XC6206-3.3V
ME6206A33XG
AP7333-3.3SRG
MCP1700T-3302E/TT
LN6206P332MR-G
ME6206A33M3G



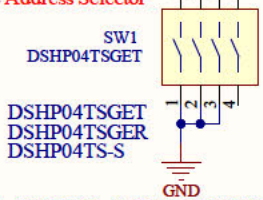


I2C



A0 A1 A2

I2C Address Selector



DSHP04TSGET
DSHP04TSGER
DSHP04TS-S

ON - CLOSED - 0, OFF - OPENED - 1

I2C Address:

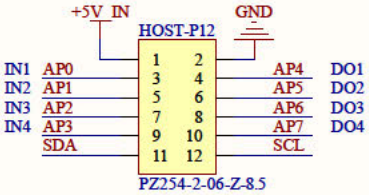
0 1 1 1 A2 A1 A0 x - for TCA9534A

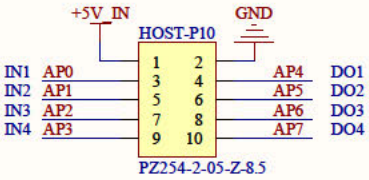
0 1 0 0 A2 A1 A0 x - for TCA9534

TCA9534APWR
TCA9534PWR
PCA9534APWR
PCA9534PWR
PCA9534PW

PCA9554(A)PW???
PCA9654EDTR2G???

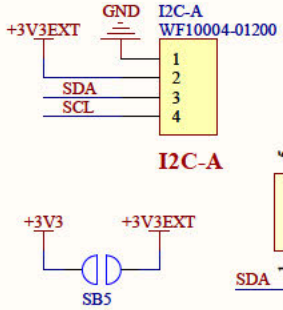
CONNECTORS

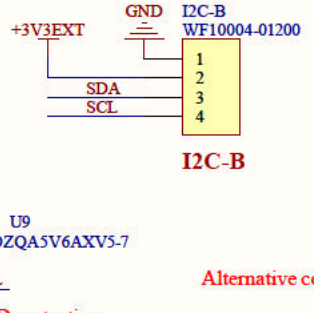


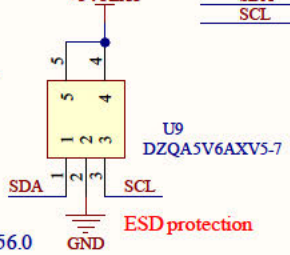


PZ254-2-05-Z-8.5
X6521WV-2x05H-C60D30
PZ254V-12-10P
PZ2.54-2*5

Alternative connectors for HOST-P are the same but 12 pins







ESD protection

Board dimensions: 47.0 x 56.0

Octal Isolated IO: 4 DI + 4DO

Max. current consumption (+3V3) = 4 * (3.3 / 4.7 + (3.3 - 1) / 1) + 4 * ((3.3 - 1.3) / 470 + (3.3 - 1) / 1) + (3.3 - 1) / 1 = ~ 41 mA

1) BIPOLAR INPUT

Input (DINx): Vi = 0...2V (Log.0) - optocoupler is closed. Output (INx): Vo = 3.0...3.3V (log.1)

Vi = 2...4.2V - undefined range

Input (DINx): Vi = 4.2...36V (Log.1) - optocoupler is opened. Output (INx): Vo = 0...0.3V (log.0)

Input (DINx): Imax = 3.5mA

2) UNIPOLAR INPUT

Input (DINx): Vi = 0...1V (Log.0) - optocoupler is closed. Output (INx): Vo = 3.0...3.3V (log.1)

Vi = 1...3V - undefined range

Input (DINx): Vi = 3...36V (Log.1) - optocoupler is opened. Output (INx): Vo = 0...0.3V (log.0)

Input (DINx): Imax = 3.5mA

OUTPUTS

Input (DOx): Vi = 0...0.5V (Log.0) - transistor is opened.

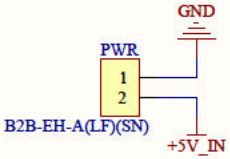
Vi = 0.5...2.5V - undefined range

Vi = 2.5...5V (Log.1) - transistor is closed.

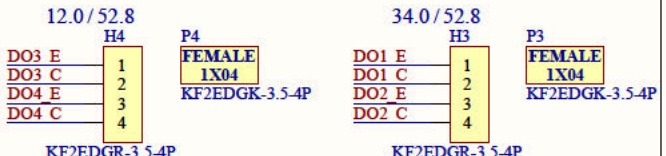
When transistor is opened: Vout (Uce)= 1.4V (Iout = 0.1...1A) Pce = Uce * Iout, Uc = 5...48V

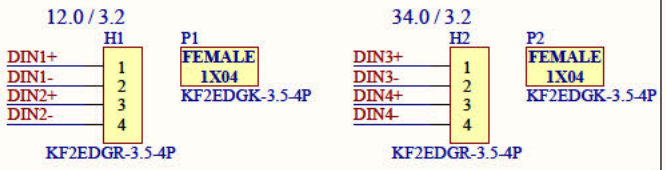
Attention!

1. I2C (DD1, C7, R35...R38, SW1, U9, I2C-A, I2C-B) - optional
2. Mount HOST-P12 or HOST-P10 or PWR



B2B-EH-A(LF)(SN)_2.54
B2B-EH-A(LF)(SN) - pin length - 3.3 mm
B2B-EH(LF)(SN) - pin length - 4 mm





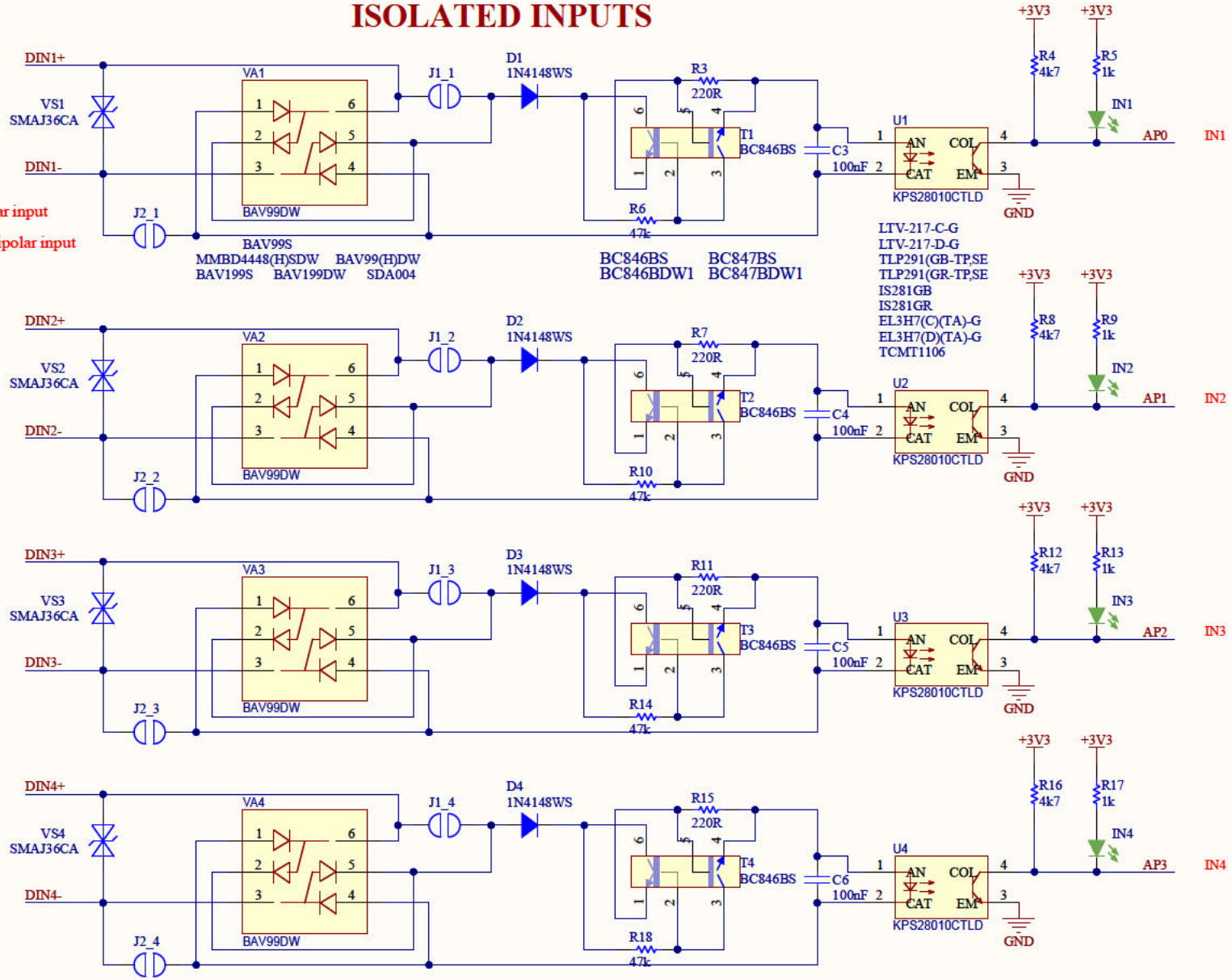
[redacted]

ISOLATED INPUTS

J1_x, J2_x - normally open

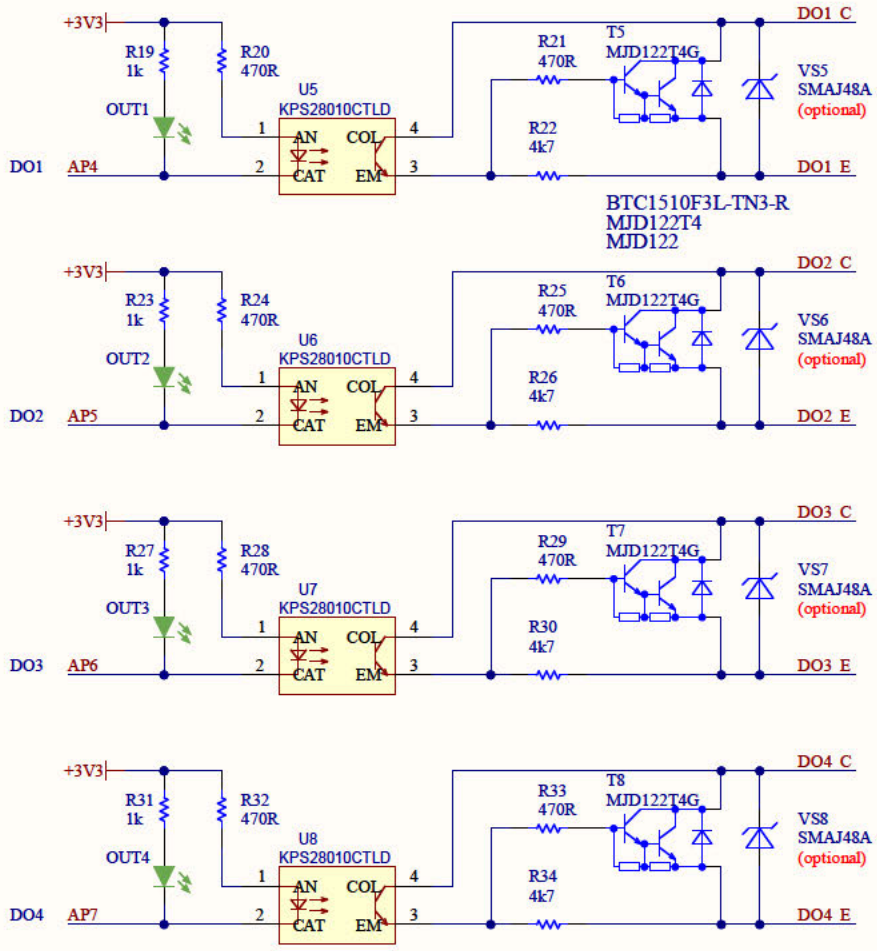
1) J1_x, J2_x - opened, VAx - mounted - bipolar input

2) J1_x, J2_x - closed, VAx - not mounted - unipolar input



[redacted]

ISOLATED OUTPUTS (DARLINGTON)



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