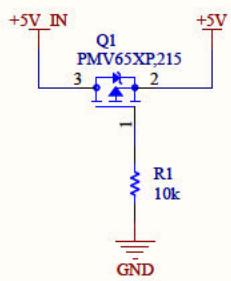
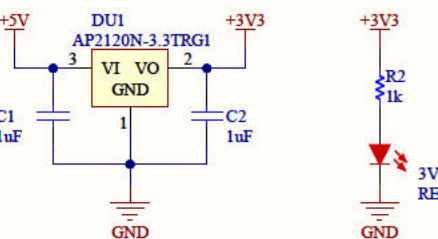


+3.3V POWER SUPPLY

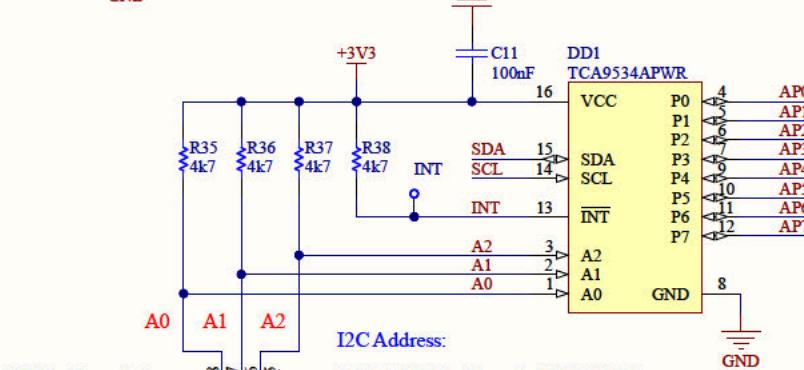
Reverse polarity protection



AP2120N-3.3TRG1
XC6206-3.3V
ME6206A33XG
AP7333-3.SRG
MCP1700T-3302E/TT
LN6206P332MR-G
ME6206A33M3G



I2C



I2C Address Selector
DSHP04TSGET
SW1
0111 A2 A1 A0 x - for TCA9534A
0100 A2 A1 A0 x - for TCA9534

DSHP04TSGET
DSHP04TSGER
DSHP04TS-S
GND
ON - CLOSED - 0, OFF - OPENED - 1
PCA9534(A)PW ???
PCA9654EDTR2G ???

+3V3EXT GND I2C-A WF10004-01200

SDA SCL

I2C-A

I2C Address:

0111 A2 A1 A0 x - for TCA9534A

0100 A2 A1 A0 x - for TCA9534

TCA9534APWR
TCA9534PWR
PCA9534APWR
PCA9534PWR
PCA9534PW

Board dimensions: 47.0 x 56.0

+3V3 +3V3EXT SDA SCL SB5 ESD protection

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

I2C-B

WF10004-01200

SDA SCL

+3V3EXT

GND

IN1 IN2 IN3 IN4

AP0 AP1 AP2 AP3

IN5 IN6 IN7 IN8

AP4 AP5 AP6 AP7

SDA SCL

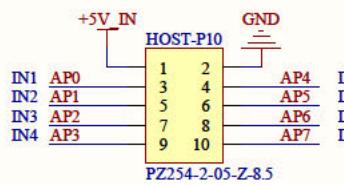
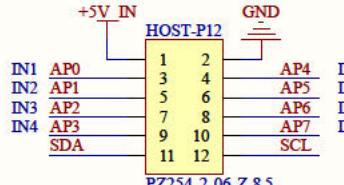
PZ254-2-05-Z-8.5

X6521WV-2x05H-C60D30

PZ254V-12-10P

PZ2.54-2*5

CONNECTORS



PZ254-2-05-Z-8.5

X6521WV-2x05H-C60D30

PZ254V-12-10P

PZ2.54-2*5

Isolated Digital Inputs - 8 channels

Max. current consumption (+3V3) = 8 * (3.3 / 4.7 + (3.3 - 1) / 1) + (3.3 - 1) / 1 = ~ 30 mA

1) BIPOLE INPUT

Input (DINx): $V_i = 0 \dots 2V$ (Log. 0) - optocoupler is closed. Output (INx): $V_o = 3.0 \dots 3.3V$ (log. 1)

$V_i = 2 \dots 4.2V$ - undefined range

Input (DINx): $V_i = 4.2 \dots 36V$ (Log. 1) - optocoupler is opened. Output (INx): $V_o = 0 \dots 0.3V$ (log. 0)

Input (DINx): $I_{max} = 3.5mA$

2) UNIPOLAR INPUT

Input (DINx): $V_i = 0 \dots 1V$ (Log. 0) - optocoupler is closed. Output (INx): $V_o = 3.0 \dots 3.3V$ (log. 1)

$V_i = 1 \dots 3V$ - undefined range

Input (DINx): $V_i = 3 \dots 36V$ (Log. 1) - optocoupler is opened. Output (INx): $V_o = 0 \dots 0.3V$ (log. 0)

Input (DINx): $I_{max} = 3.5mA$

Attention!

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

12.0 / 52.8

H4

P4

FEMALE

1X04

KF2EDGK-3.5-4P

34.0 / 52.8

H3

P3

FEMALE

1X04

KF2EDGK-3.5-4P

DIN5+

DIN5-

DIN6+

DIN6-

DIN7+

DIN7-

DIN8+

DIN8-

H1

P1

FEMALE

1X04

KF2EDGK-3.5-4P

DIN1+

DIN1-

DIN2+

DIN2-

DIN3+

DIN3-

DIN4+

DIN4-

DIN5+

DIN5-

DIN6+

DIN6-

DIN7+

DIN7-

DIN8+

DIN8-



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

1

2

3

4

ISOLATED INPUTS

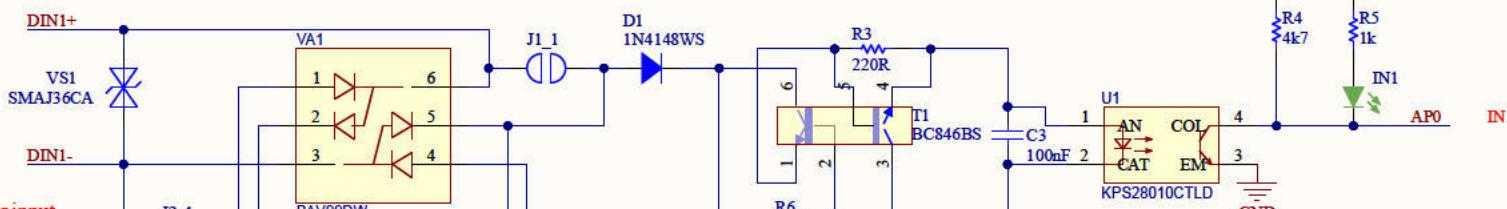
A

A

J1_x, J2_x - normally open

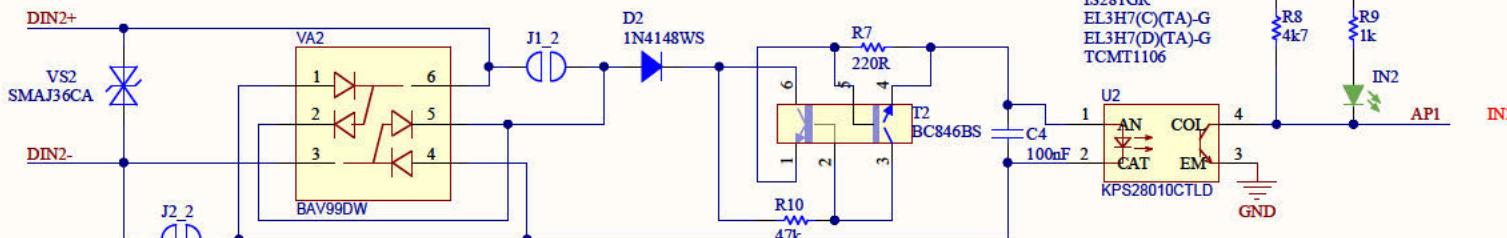
1) J1_x, J2_x - opened, VAx - mounted - bipolar input

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



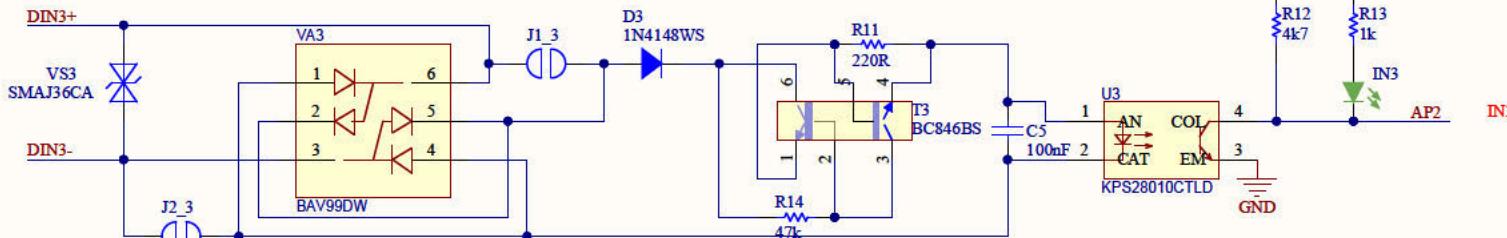
B

B



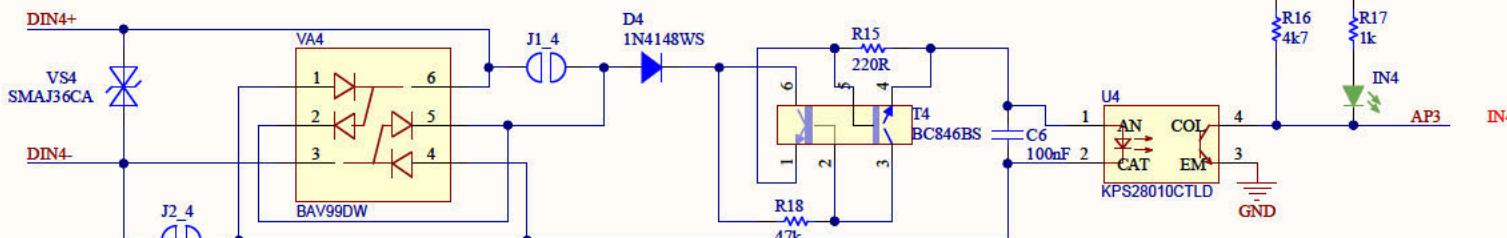
C

C



D

D



1

2

3

4

1

2

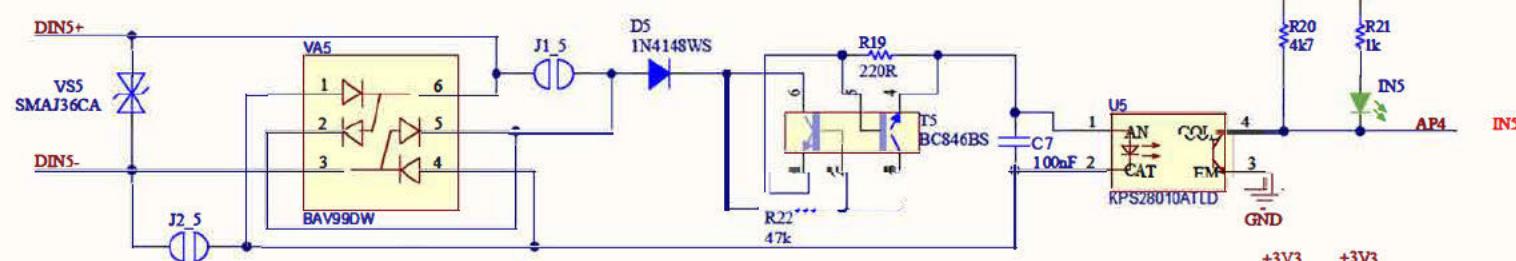
3

4

ISOLATED INPUTS

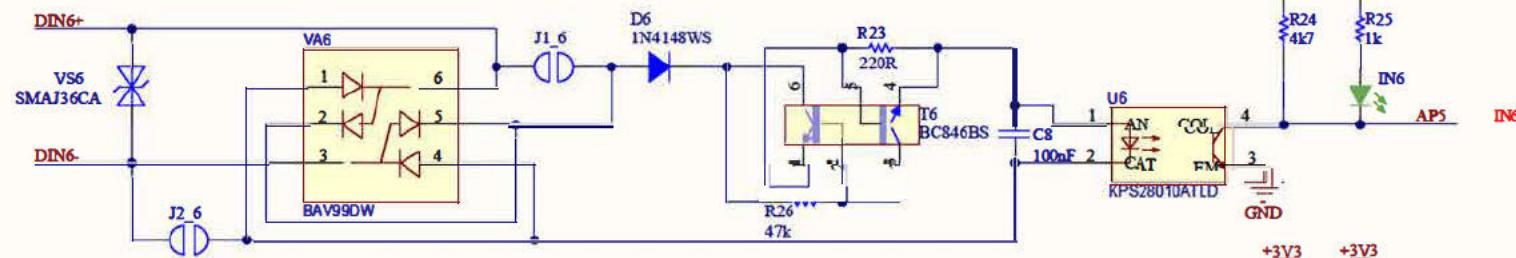
A

A



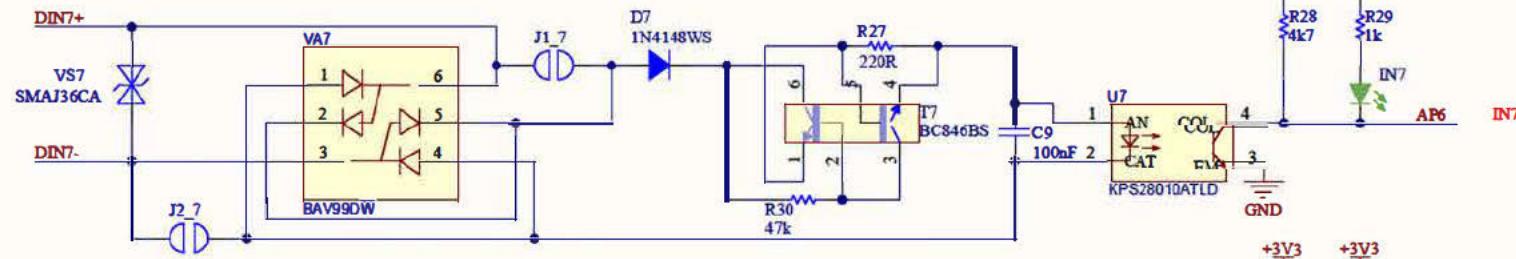
B

B



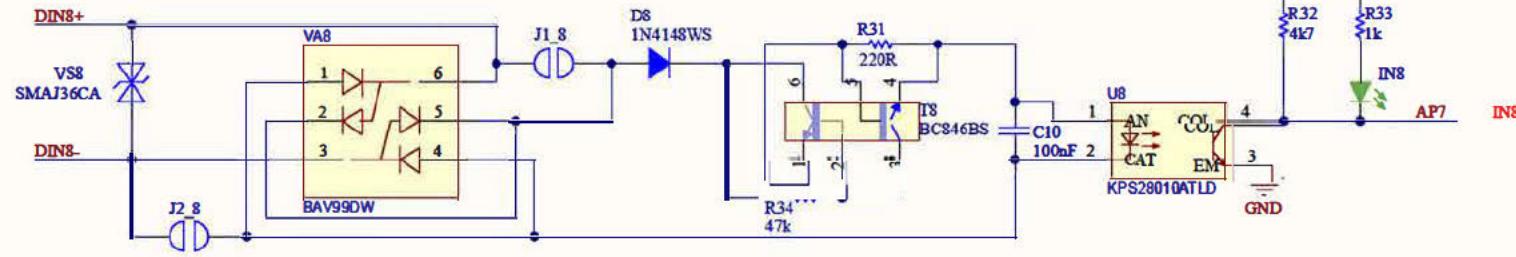
C

C



D

D



1

2

3

4