LilyPad – MainBoard Simple
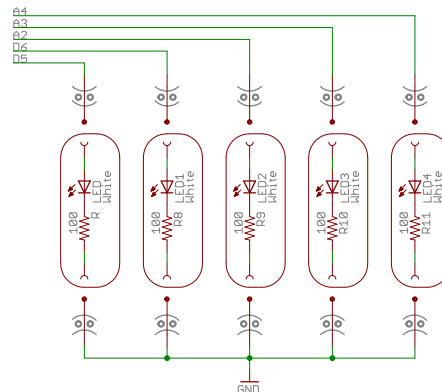
TITLE: LilyPad-Dev-v34

LillyPad

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Changes to V33 (12/22/11)
 -fixed miso line

Changes to V34 (1/9/2012)
 -moved to SMD vibe motor
 -changed lots of silk to vector style font
 -modified demension on all outer boards to make for easier snapping
 -added more perferation drills on tabs for easier cutting
 -added OSHL to main board

open hardware

Component labels

U1 ATMEGA328
- PC6(RESET) 29
- PC0(ADC0) 23 A1
- PC1(ADC1) 24 A2
- PC2(ADC2) 25 A3
- PC3(ADC3) 26 A4
- PC4(ADC4/SDA) 27 A5
- PC5(ADC5/SCL) 28 A6
- ADC6 19
- ADC7 22
- AVCC 18
- VCC 4
- VCC 6
- AREF 20
- PD0(RXD) 30 RXI
- PD1(TXD) 31 TXO
- PD2(INT0) 32 D2
- PD3(INT1) 1 D3
- PD4(XCK/T0) 2
- PD5(T1) 9 D5
- PD6(AIN0) 10 D6
- PD7(AIN1) 11 D7
- PB6(XTAL1/TOSC1) 7
- PB7(XTAL2/TOSC2) 8
- PB0(ICP) 12
- PB1(OC1A) 13 D9
- PB2(SS/OC1B) 14 D10
- PB3(MOSI/OC2) 15 D11
- PB4(MISO) 16 D12
- PB5(SCK) 17 D13
- AGND 5
- GND 3
- GND 21

Y1 8MHz

U2 MCP9700
- VCC VO
- GND
C5 0.1uF

U3 TEMT6000
R7 10k
SEWTAP6

U4 MCP73831
- VIN VBAT
- PROG
- STAT VSS
D4 Yellow
R12 330
C9 4.7uF
R13 ...k
C10 4.7uF
VBATT

M1 MOTORSMD
R6 33
D3
SEWTAP6

D2 LED-TRICOLOR
RED BLU GRN
R3 200
R4 100
R5 100
D9 D10 D11

S1 On/Off
S2 AYZ0202
SINK1 SINK2
S3
S4 Reset

JP1 LiPo VBATT
JP2 FTDI
- DTR
- RXI
- TXO
- VCC
- CTS
- GND
TP-DTR DTR
TP-TX TXO
TP-RX RXI
FTDI_VCC

C2 47uF
C3 1.0uF
C1 0.1uF
C4 0.1uF
R2 10k
R1 330
D1 Status
TP1

PP-MISO D12
PP-SCK D13
PP-RST RST
PP-GND

B1 Buzzer

LED0 R8 100 White
LED1 R9 100 White
LED2 R10 100 White
LED3 R11 100 White
LED4 White

A4 A3 A2 D6 D5
GND VCC