

# Bill of Materials

LedCube

Source Data From: Led Cube.PrjPcb

Project: Led Cube.PrjPcb

Variant: None

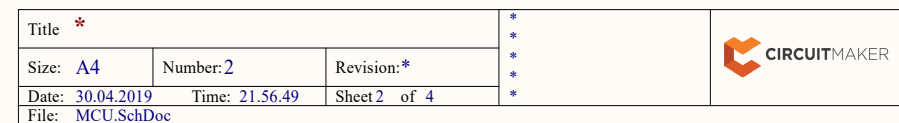
Creation Date: 30.04.2019 21.56.23

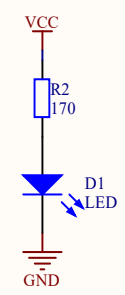
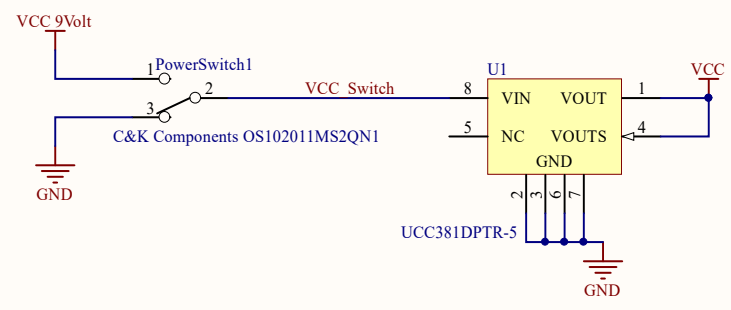
Print Date: 30-Apr-19 9:56:29 PM


Footprint	Comment	LibRef	Designator	Description	Quantity
PCB- wwfb7ijyde73 wgjh02dc-1 DIP24 N	100nF	CMP-147077-9	C1, C2, C3	K 100nF Ceramic Multilayer Capacitor, 50 V dc, +125degC, X7R Dielectric, +/-20%	3
	Texas Instruments CD4514BE LED	CD4514BE	CollumMUX1	CMOS 4-Bit Latch/4-to-16 Line Decoder with Output 'High' on Select 24-PDIP -55 to 125	1
PCB- 0nqcqa48p5n qkflv7v2c-1 PCBCompon ent_1 - duplicate Arduino- Minimal		CMP- 39eef09c3dcce6 29-1	D1	LED; Through Hole; 3 mm; UV; 395nm; Water Clear Lens; 30 Deg Viewing Angle; Flanged	1
	3pin header	CMP- c3e20a8fd0141c 25-2	J1, J2	2.54mm (.100") Pitch C-Grid III Header, Single Row, Vertical, 3 Circuits, Tin (Sn) Plating	2
	Arduino A000005	CMP- f1bd39841b322e 7a-40	MCU1	Nano 3.0 Atmel Atmega 328 MCU board	1
PINHEAD_2X 05_127 PCB	Samtec FTSH-105-01-L-D C&K	CMP-667845-3	P1, P2, P3	CLEAR GLOVE BX 100 M - More Details	3
		CMP	PowerSwitch1	Switch Slide ON ON SPDT Top Slide 0.14	1

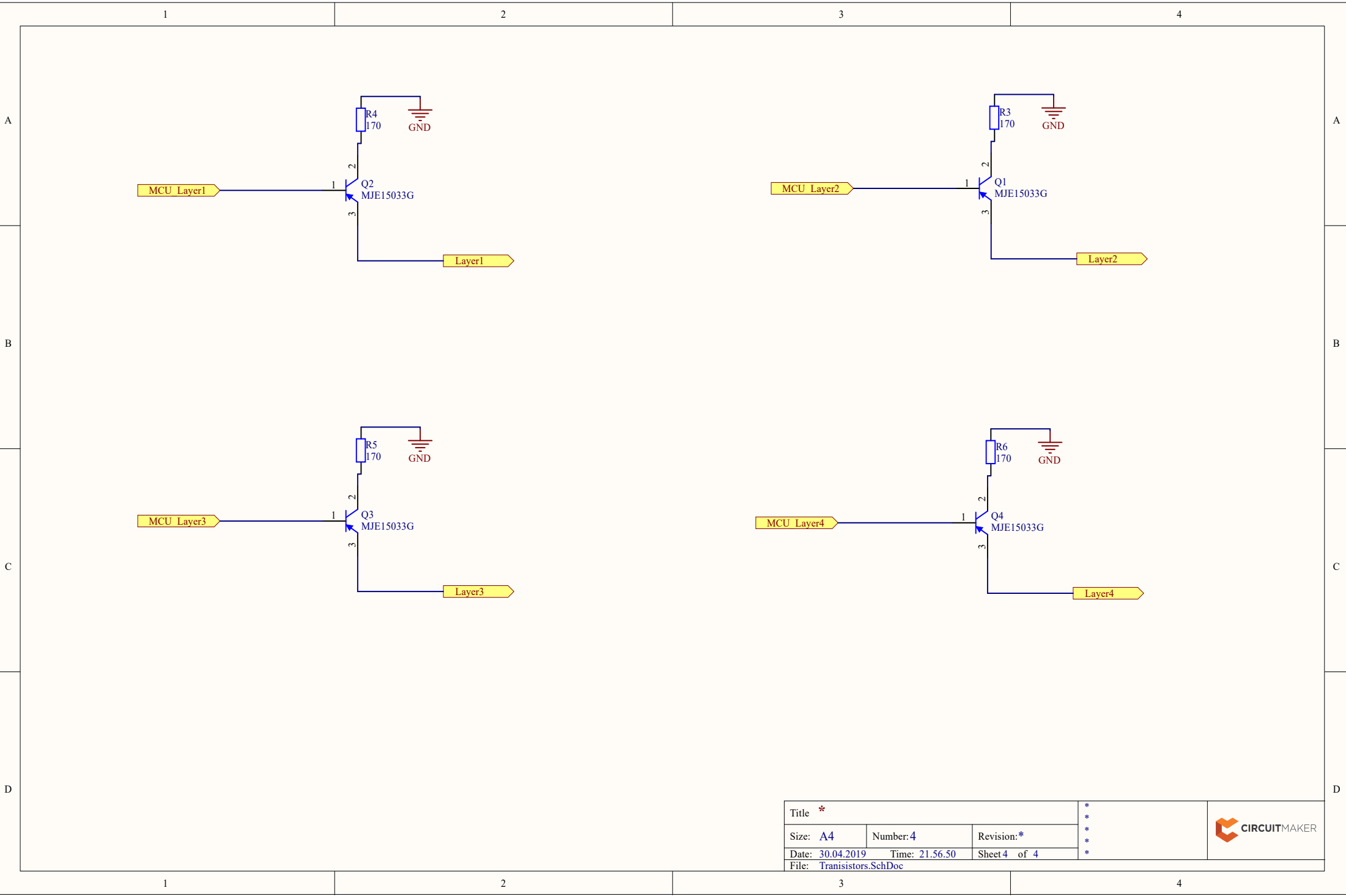
PINHEAD_2X05_127 PCB-5zgzxay76ut 73c17ajyg-1	Samtec FTSH-105-01-L-D C&K Components OS102011MS2 QN1 MJE15033G	CMP-667845-3	P1, P2, P3	CLEAR GLOVE BX 100 M - More Details	3
ONSC-TO-220-3-221A-09 PCB-cw54qq2phg m0nfhantw-1	10K	CMP-48a681899f6c97 61-2	PowerSwitch1	Switch Slide ON ON SPDT Top Slide 0.1A 12VDC 10000Cycles PC Pins Thru-Hole Bulk	1
PCB-cw54qq2phg m0nfhantw-1	170	CMP-19307563-2	Q1, Q2, Q3, Q4	Complementary Silicon Plastic Power Transistor, 3-Pin TO-220, Pb-Free, Tube	4
PCB-ak3obnv6pp2 pa0ft5w2m-1	SWITCH-TACTILE-4	CMP-b5607e08e64f6a a7-2	R1	ERG Series Axial Through Hole Fixed Resistor 56Ohms +/-5% 1W +/-350ppm/degC	1
TI-D8_L	UCC381DPTR-5	CMP-b5607e08e64f6a a7-2	R2, R3, R4, R5, R6	ERG Series Axial Through Hole Fixed Resistor 56Ohms +/-5% 1W +/-350ppm/degC	5
		CMP-1275081-4	ResetSW1	Tact Switch 12x12, 4mm THT 4pin black	1
		CMP-1495550-2	U1	Single Output LDO, 1 A, Fixed 5 V Output, 5.6 to 9 V Input, with Low IQ, 8-pin SOIC (D), 0 to 70 degC, Green (RoHS & no Sb/Br)	1
Approved					24
Notes					








Title *			* * * *	
Size: A4	Number: 3	Revision: *		
Date: 30.04.2019	Time: 21.56.50	Sheet 3 of 4		
File: Power.SchDoc				



Title *			* * * *	
Size: A4	Number: 4	Revision: *		
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File: Transistors.SchDoc				

J1

C3

ColumnMUX1

C1

U1

C2

MCU1

Q1

Q2

R3

R4

R5

R6

Q3

Q4

R1

ResetSW1

P2

P1

P3

J2

PowerSwitch1

R2

D1

TX1	UI1
RX1	GND
RST	RST
GND	5V
D2	A7
D3	A6
D4	A5
D5	A4
D6	A3
D7	A2
D8	A1
D9	A0
D10	VREF
D11	3V3
D12	D13

TX1	UI1
RX1	GND
RST	RST
GND	5V
D2	A7
D3	A6
D4	A5
D5	A4
D6	A3
D7	A2
D8	A1
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