

A

A

B

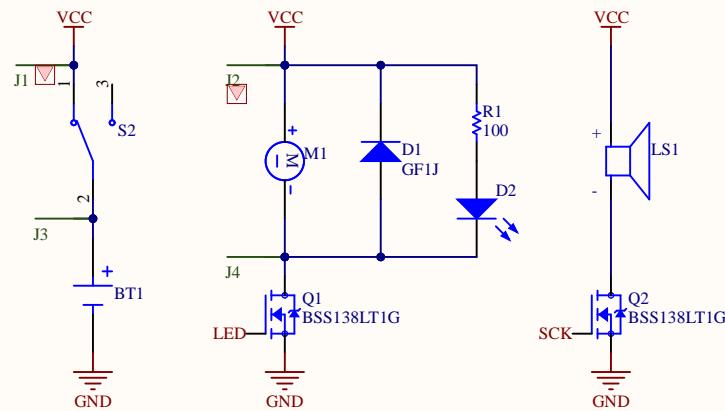
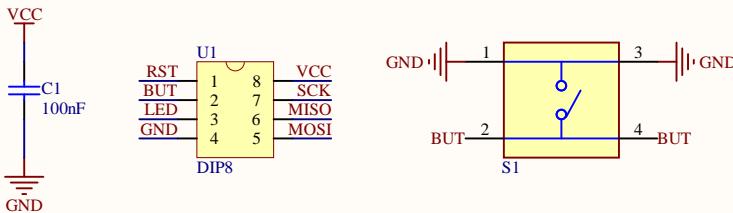
B

C

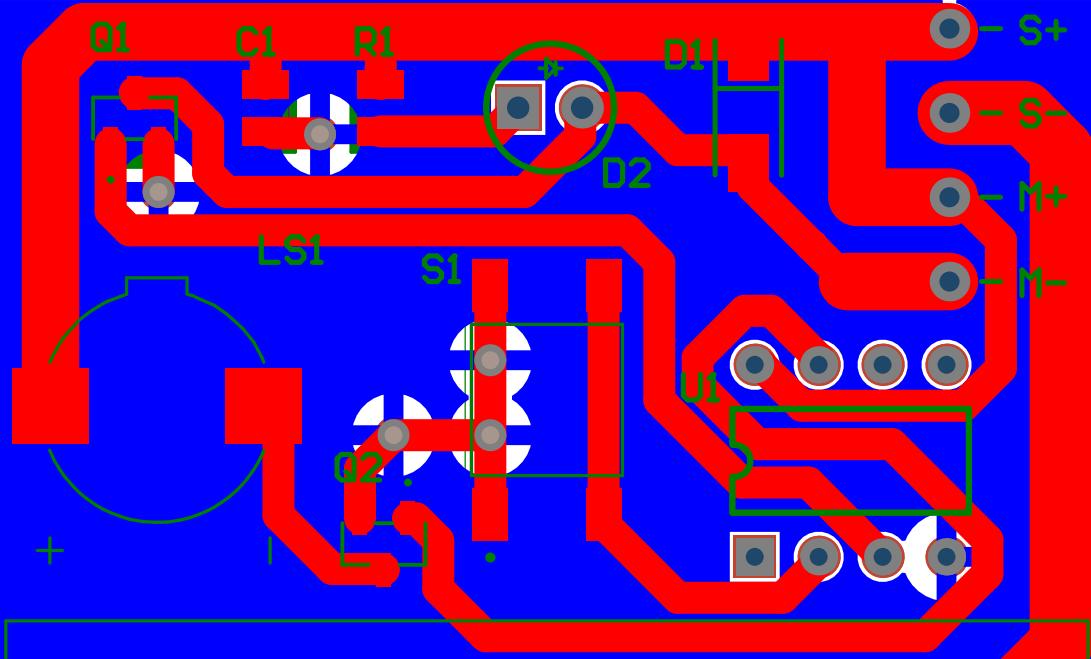
C

D

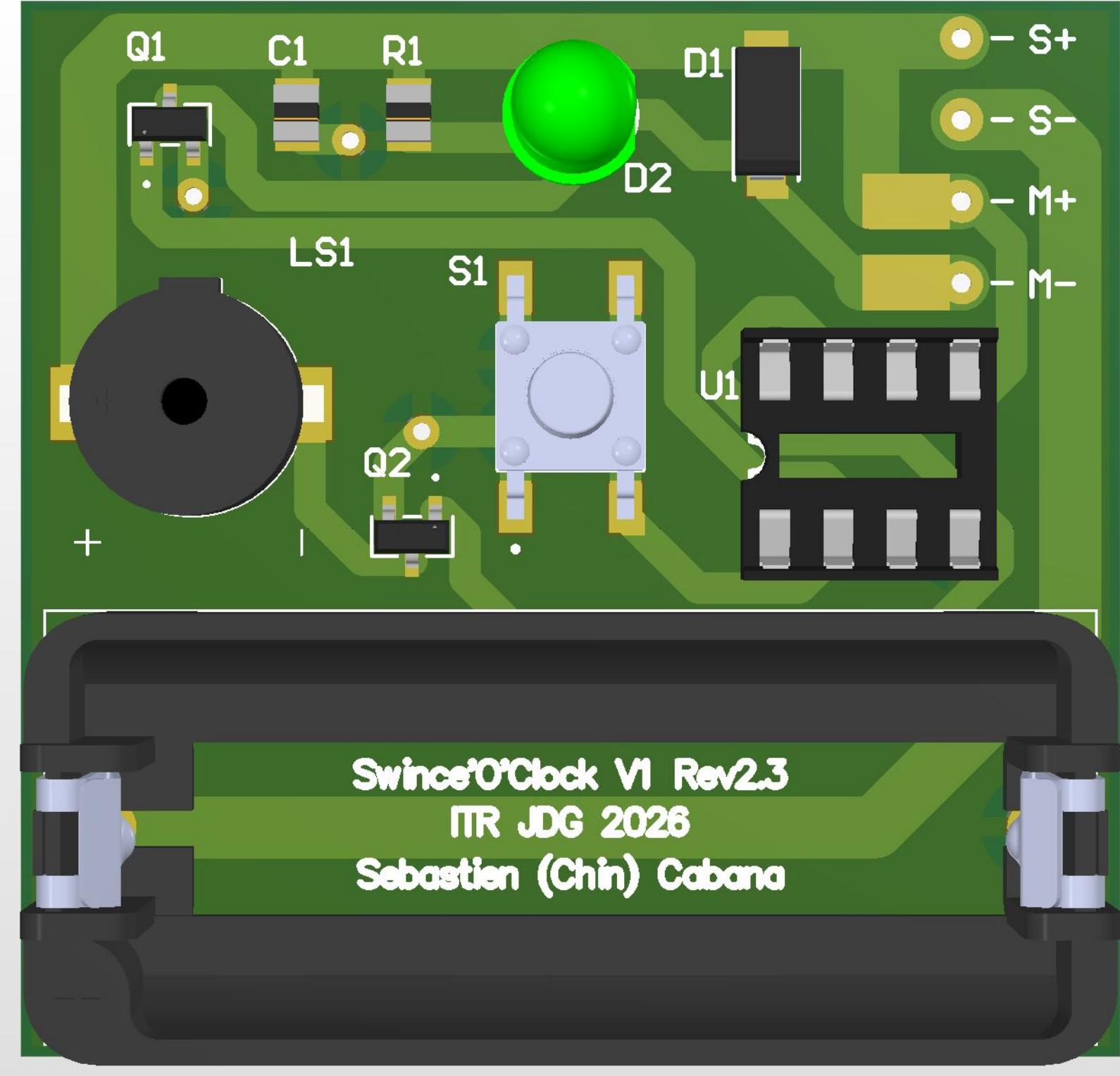
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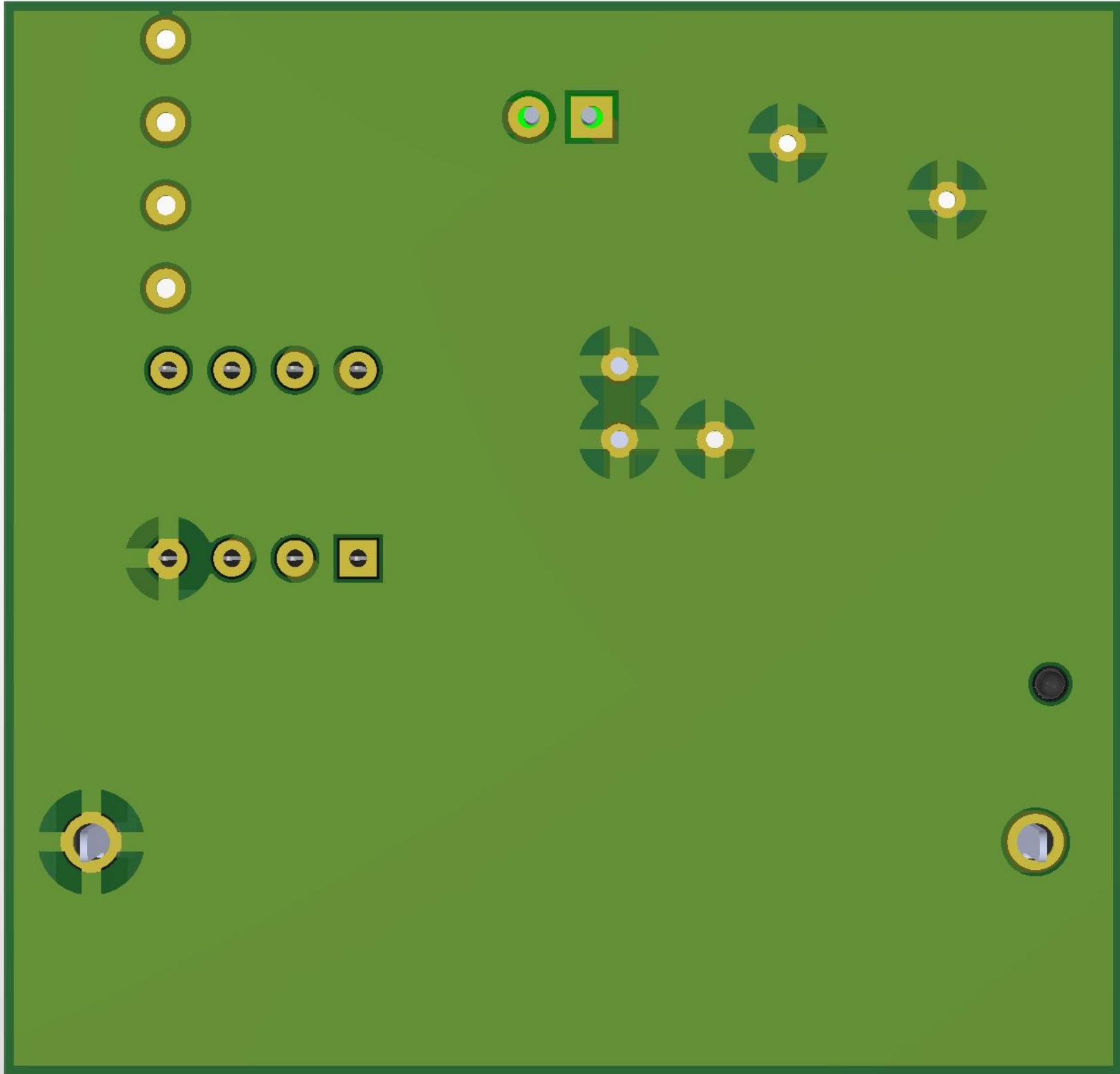


Title <b>Swince'O'Clock - Random alarm based on ATtiny85V</b>		
Size Letter	Number <b>ITR JDG 2026</b>	Revision <b>2.3</b>
Date: 11-25-2025	Sheet 2 of 2	
File: C:\Users\...\final-v1.SchDoc		Drawn By: <b>Sebastien Cabana</b>



SwineO'Clock V1 Rev2.3  
IIR JDG 2026  
Sebastien (chin) Cabane





DigiKey Part Number	Comment	Description	Designator	Value	Quantity	Footprint	Mounting Type
BH123A-ND	BH123A	Battery Holder (Open) CR123A 1 Cell PC Pin	BT1		1	BAT_BH123A	Through Hole
	Cap-SM	Capacitor - Surface Mount standard pads	C1	100nF	1	SMD-0805	Surface Mount
GF1JFSTR-ND	GF1J	Diode 600 V 1 A Surface Mount DO-214AC (SMA)	D1		1	DIOM5426X300N	Surface Mount
	LED	Typical LED	D2		1	LED_GREEN	Through Hole
923345-05-C	Jumper-EXT-22AWG	1 Point Jumper Wire 22 AWG; For External Connections	J1, J2, J3, J4		4	Jumper-EXT-22AWG	Through Hole
668-SMTB-0927-TW-RCT-ND	SMTB-0927-TW-R	Buzzers Transducer, Externally Driven Electromechanical/Magnetic 3 V 80mA 2.7kHz 95dB @ 3V	LS1		1	SMTB-0927-TW-R	Surface Mount
668-HD-EMB1205-2-LW30-R-ND	HD-EMB1205-2-LW30-R	DC Motor Vibration, ERM (Haptic) 13000 RPM 3VDC	M1		1	HD-EMB1205-2-LW30-R	Through Hole
BSS138LT1GOSCT-ND	BSS138LT1G	N-Channel 50 V 200mA (Ta) 225mW (Ta) Surface Mount SOT-23-3 (TO-236)	Q1, Q2		2	SOT-23-3	Surface Mount
	Res-SM	Resistor - Surface Mount standard pads	R1	100	1	SMD-0805	Surface Mount
2223-TS04-66-70-BK-260-SMT-ND	Pushbutton	6x6 mm, 7 mm Actuator Height, 260 gf, Black, Surface Mount, SPST, Tactile Switch	S1		1	SW_TS04-66-70-BK-260-SMT	Surface Mount
2223-SLW-195557-5A-N-D-ND	Switch	Slide Switch SPDT Panel Mount	S2		1	SW_SLW-195557-5A-N-D	Panel Mount
AE9986-ND	DIP8	8 (2x4) Pos DIP, 0.3" (7.62mm) Row Spacing Socket Tin Through Hole	U1		1	DIP-8-Socket	Through Hole

# Design Rules Verification Report

Filename : C:\Users\sebas\OneDrive - Université du Québec à Trois-Rivières\Implication\JDG\2026\Swince'O'Clock\Swince'O'Clock\final-v1.PcbDoc

## Warnings 0

Rule Violations 0

Warnings	
Total	0
<b>Rule Violations</b>	
Clearance Constraint (Gap=10mil) (All), (All)	0
Short-Circuit Constraint (Allowed=No) (All), (All)	0
Un-Routed Net Constraint ( All )	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=10mil) (Max=200mil) (Preferred=35mil) (All)	0
Power Plane Connect Rule(Relief Connect )(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Acute Angle Constraint (Minimum=30.000) (All)	0
Hole Size Constraint (Min=15.748mil) (Max=314.961mil) (All AND ( (HoleSize >= 2) AND (HoleSize <= 3) OR (HoleSize	0
Hole To Hole Clearance (Gap=10mil) (All), (All)	0
Minimum Solder Mask Sliver (Gap=10mil) (All), (All)	0
Silk To Solder Mask (Clearance=10mil) (Disabled)(IsPad), (All)	0
Silk to Silk (Clearance=10mil) (Disabled)(All), (All)	0
Net Antennae (Tolerance=0mil) (All)	0
Board Clearance Constraint (Gap=0mil) (All)	0
RoomDefinition (Bounding Region = (0mil, 0mil, 2480.315mil, 2480.315mil) (False)	0
Height Constraint (Min=0mil) (Max=1000mil) (Preferred=500mil) (All)	0
<b>Total</b>	<b>0</b>