Bill of Materials

<Parameter Title not found>

Source Data From:

ZeroCrossDetector.PrjPcb ZeroCrossDetector.PrjPcb

Project: Variant:

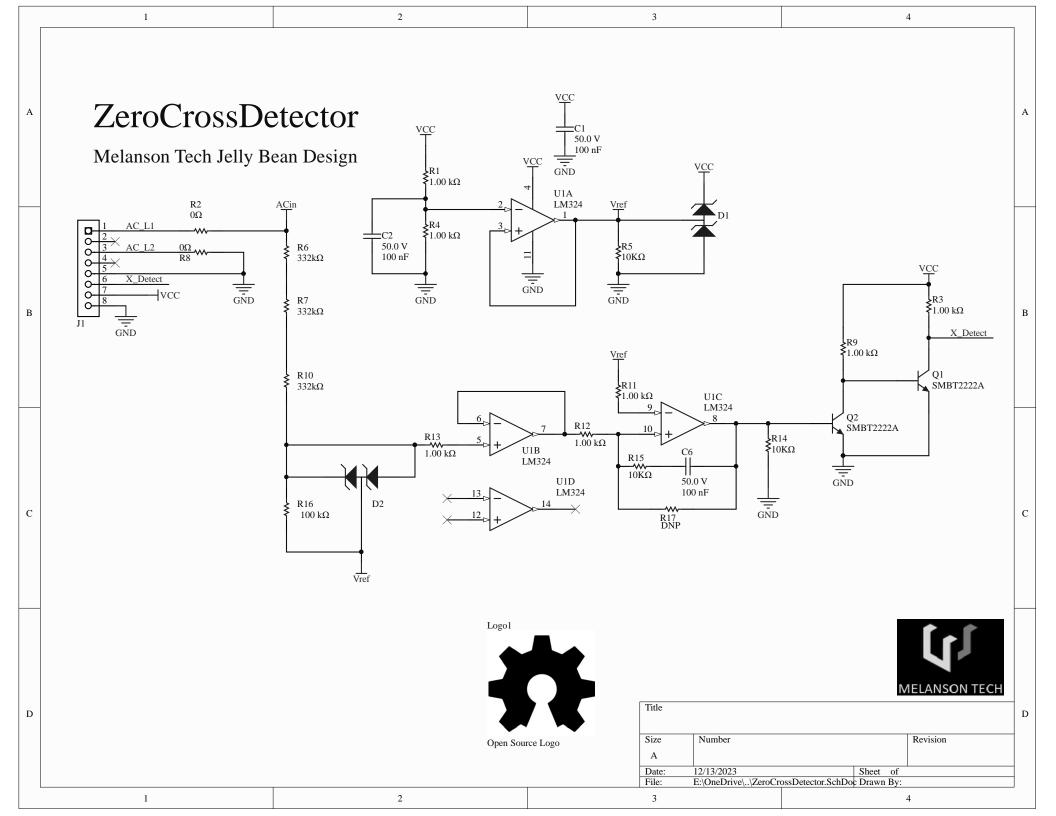
Creation Date: Print Date:

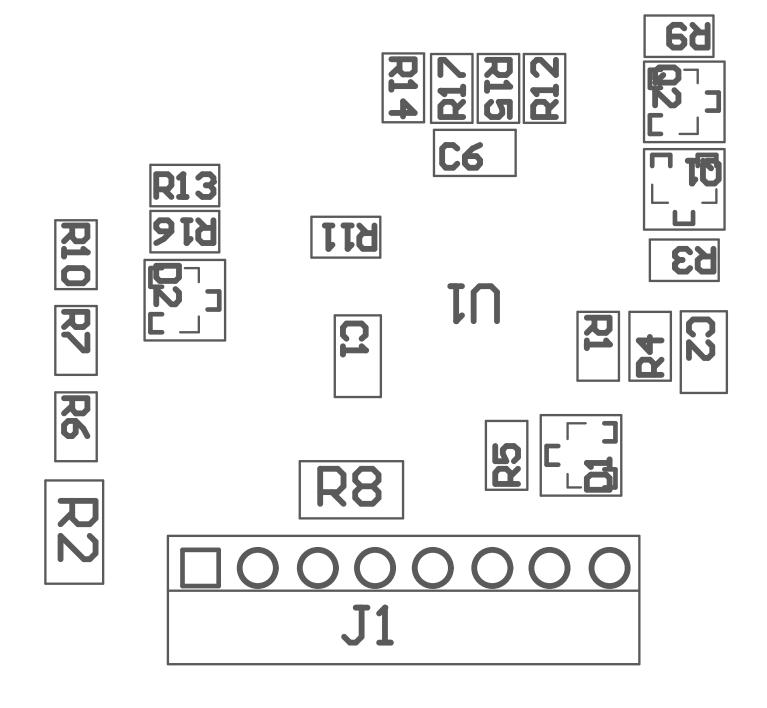
12/13/2023 10:57:52 AM 13-Dec-23 10:58:07 AM

Production Quantity: 100 Currency

CAD

	Comment		Designator	Description	Quantity	Supplier 1	• • •	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal 1	Manufacturer 1	Manufacturer Part Number 1
Cap,0805	08055C104JAT2 A	Cap,0805,100nf, 50V,5%,08055C	C1, C2, C6	Capacitor; Ceramic; Cap 0.1 uF; Tol 5%; Vol-Rtg 50 VDC; SMT; 0805; X7R; Tape &	;	3 Digi-Key	478-3352-1-ND				Loading	Loading
SOT23-3	BAT54SLT1G	104JAT2A Diode,Shottky,A rray,Series,30V, 200mA,BAT54S LT1G	D1, D2	Reel Diode Array 1 Pair Series Connection Schottky 30V 200mA (DC) Surface Mount TO-236-3, SC-59, SOT-23-3	:	Digi-Key	BAT54SLT1GOSCT-ND	0.0735	200	\$ 14.70	ON Semiconductor	BAT54SLT1G
	Pin,SinlgeRow	HEADER,0.1",8 Pin,SinlgeRow				1 Digi-Key	S1011E-36-ND	1.99271	100	\$ 199.27	Sullins	PBC36SAAN
Source	Open Source Logo SMBT2222A	Symbol,Open Source Trans,40V,600m	Logo1	Open Source Silk Screen Logo NPN Silicon Switching Transistor, 40 V		Digi Kay	SMBT2222AE6327HTS	0.14739	200	£ 20.49	Infineon	SMBT2222AE-6327
50123-3	SIVIB 12222A	A,0.33W, SMBT2222A	Q1, Q2	VCEO, 600 mA IC, SOT23, Reel, Green		2 Digi-Key	A1CT-ND	0.14739	200	\$ 29.48	infineon	SMB12222AE-6327
	Vishay CRCW08051K0 0JNEA		R1, R3, R4, R9, R11, R12, R13	Res Thick Film 0805 1K Ohm 5% 0.125W(1/8W) ±200ppm/C Molded SMD Automotive Paper T/R		7 Digi-Key	541-1.0KADKR-ND				Loading	Loading
Res,1206	Res1	Res,1206,Gener	R2, R8		:	2						
	Vishay / Dale CRCW080510K 0FKTA	Res,0805,10.0k O,1%,100 ppm,CRCW080 510K0FKTA	R5, R14, R15	RES SMD 10K OHM 1% 1/8W 0805	:	Digi-Key	541-3016-1-ND				Loading	Loading
	RT0805BRD073 32KL		R6, R7, R10	Thin Film Resistors - SMD 1/8W 332K ohm .1% 25ppm	:	Digi-Key	YAG1869CT-ND	0.12602	300	\$ 37.81	Yageo	RT0805BRD07332KL
	CRCW0805100 KFKEA		R16	100 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Thick Film		1 RS						
res, 0805, HD	DNP	Res,0805,Gener	R17			1						
SOIC-14	LM324ADR2G	OPAMP, Quad circuit, 1Mhz, SOIC-14,SMD, LM324ADR2G	U1	Single Supply Quad Operational Amplifier, 3 to 32 V, 0 to 70 degC, 14-Pin SOIC, Pb-Free, Tape and Reel		1 Digi-Key	LM324ADR2GOSCT- ND	0.35162	100	\$ 35.16	ON Semiconductor	LM324ADR2G
Annewad					2	7	•		•	\$ 316.42		•
Approved		Notes										





ZeroCrossDetector

CND SECTION OF THE SE

Design Rules Verification ReportFilename : E:\OneDrive\Shawn\circuitstudio projects\ZeroCrossDetector\ZeroCrossDetector.C SPcbDoc

Warnings 0 Rule Violations 0

Warnings Total 0

Rule Violations	
Clearance Constraint (Gap=0.254mm) (All), (All)	0
Silk primitive without silk layer	0
Silk to Silk (Clearance=0.15mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.01mm) (IsPad),(All)	0
Minimum Solder Mask Sliver (Gap=0.01mm) (All),(All)	0
Hole To Hole Clearance (Gap=0.54mm) (All),(All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)	0
Width Constraint (Min=0.13mm) (Max=0.5mm) (Preferred=0.13mm) (All)	0
Clearance Constraint (Gap=2mm) (InNetClass('HVinA')),(InNetClass('HVinB'))	0
Clearance Constraint (Gap=0.254mm) (InNetClass('LowVolt')), (InNetClass('LowVolt'))	0
Clearance Constraint (Gap=1mm) (InNetClass('HighVolt')),(InNetClass('MidVolt'))	0
Clearance Constraint (Gap=2mm) (InNetClass('HighVolt')),(InNetClass('LowVolt'))	0
Unpoured Polygon (Allow unpoured: False)	0
Clearance Constraint (Gap=1mm) (InNetClass('MidVolt')),(InNetClass('LowVolt'))	0
Un-Routed Net Constraint ((All))	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Total	0