

TIDA-010059\_Current\_Sensing\_Board REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C3, C4, C7, C9, C10, C11, C14, C15, C18, C20, C21, C22, C26, C27, C28, C31, C34, C36, C37, C38, C39, C40, C41, C42, C43, C44, C46, C48, C49, C50, C51, C52, C53, C54	35	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
2	C2, C8, C19, C29, C30, C32, C33, C35	8	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X7R, 0805	0805
3	C5, C6, C12, C13, C16, C17, C23, C24, C45, C47, C56, C57	12	68pF	C1005C0G1H680J050BA	TDK	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
4	C25	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
5	D1	1	100V	B1100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMA	SMA
6	D2	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
7	D4, D8, D11	3	600V	UFM15PL-TP	Micro Commercial Components	Diode, Ultrastat, 600 V, 1 A, SOD-123FL	SOD-123FL
8	J1	1		20021111-00014T4LF	FCI	Header, 1.27mm, 7x2, Gold with Tin tail, TH	Header, 1.27mm, 7x2, TH
9	J2, J16	2		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, TH	6.2x8.5x5.54 mm
10	J3, J4, J6, J7, J8, J9, J10, J11, J12, J13, J14	11		20021321-00006C4LF	FCI	Receptacle, 1.27mm, 3x2, Gold, SMT	Receptacle, 1.27mm, 3x2, SMT
11	J5	1		1714955	Phoenix Contact	Terminal Block, 2x1, 6.35mm, Green, TH	Terminal Block, 2x1, 6.35mm, Green, TH
12	J15	1		1714968	Phoenix Contact	Terminal Block, 3x1, 6.35 mm, TH	18x21.5x12.5mm
13	R1, R5, R12, R22, R28, R35, R40	7	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
14	R2, R6, R13, R29, R30, R33, R34, R36, R37, R39, R41, R43	12	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
15	R3, R4, R8, R9, R10, R11, R15, R16, R24, R25, R31, R32	12	49.9	RC0603FR-0749R9L	Yageo	RES, 49.9, 1%, 0.1 W, 0603	0603
16	R7, R14, R26	3	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
17	R17, R18, R19, R20, R21, R23	6	15.0	RC0603FR-0715RL	Yageo	RES, 15.0, 1%, 0.1 W, 0603	0603
18	R27	1	4.70k	RC0402FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.0625 W, 0402	0402
19	U1, U3, U7	3		PMCS1100A2QDR	Texas Instruments	PMCS1100A2QDR, D0008A (SOIC-8)	D0008A
20	U2, U5, U6, U11, U13, U14	6		ISO7721FDR	Texas Instruments	High Speed, Robust EMC Reinforced Dual-Channel Digital Isolator, D0008B (SOIC-8)	D0008B
21	U4, U8, U12	3		SN74AHC1G08DBVR	Texas Instruments	Single 2-Input Positive-AND Gate, DBV0005A (SOT-23-5)	DBV0005A
22	U9	1		SN74LVC1G11DBVR	Texas Instruments	Single 3-Input Positive-AND Gate, DBV0006A, LARGE T&R	DBV0006A
23	U10	1		TLV1117-33CDRJ	Texas Instruments	LDO with 4.7 to 15 V Input and 3.3 V Output, 0 to 125 degC, 8-Pin SON (DRJ), Green (RoHS & no Sb/Br)	DRJ0008A
24	U15, U16, U17, U18, U19, U20	6		TL431ACDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
25	U21, U23, U25	3		REF2030AIDDCR	Texas Instruments	Low-Drift, Low-Power, Dual-Output VREF and VREF/2 Voltage Reference, DDC0005A (SOT-23-T-5)	DDC0005A
26	U22, U24, U26	3		TLV9001IDCKR	Texas Instruments	Low-Power, Rail-to-Rail In and Out, 1-MHz Operational Amplifier, DCK0005A (SOT-SC70-5)	DCK0005A
27	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
28	R38, R42, R44	0	0	CRCW0603000020EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603