Variant: 001
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TIDA-01536 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C14	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
2	C2	1	100pF	06035A101JAT2A	AVX	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
3	C3	1	10uF	293D106X9050E2TE3	Vishay-Sprague	CAP, TANT, 10uF, 50V, +/-10%, 0.8 ohm, 7343-43 SMD	7343-43
4	C4, C6, C7, C8, C9, C10, C11, C12	8	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
5	C5	1	22uF	GRM31CR61C226ME15L	MuRata	CAP, CERM, 22 µF, 16 V, +/- 20%, X5R, 1206	1206
6	C13	1	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, 0603	0603
7	D1	1	24V	SMBJ24A-13-F	Diodes Inc.	Diode, TVS, Uni, 24 V, 600 W, SMB	SMB
8	D2	1		CD143A-SR70	Bourns	IC TVS ARRAY 2-LINE 70V SOT-143	TO-253-4
9	D3	1	5V	CDSOD323-T05	Bourns	TVS DIODE 5VWM 9.8VC SOD323	SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark
10	D4	1		CDSOD323-T24S	Bourns	TVS DIODE 24VWM 43VC SMD	SMA
11	H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
12	J1, J3	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
13	J2	1		851-43-010-20-001000	Mill-Max	Receptacle, 50mil 10x1, R/A, TH	receptacle 10x1, 50mil
14	Q1	1	65 V	BC856B-7-F	Diodes Inc.	Transistor, PNP, 65 V, 0.1 A, SOT-23	SOT-23
15	Q2	1	-60V	NDT2955	Fairchild Semiconductor	MOSFET, P-CH, -60 V, -2.5 A, SOT-223	SOT-223
16	R1	1	1.0	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, 0603	0603
17	R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
18	R3	1	15.0	CRCW060315R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.1 W, 0603	0603
19	R4	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
20	R5, R6, R7	3	33.0	CRCW060333R0FKEA	Vishay-Dale	RES, 33.0, 1%, 0.1 W, 0603	0603
21	R8	1	8.25k	RG1608P-8251-B-T5	Susumu Co Ltd	RES, 8.25 k, 0.1%, 0.1 W, 0603	0603
22	R9	1	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
23	R10, R11	2	15.0	CRCW080515R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.125 W, 0805	0805
24	R12	1	309k	RG1608P-3093-B-T5	Susumu Co Ltd	RES, 309 k, 0.1%, 0.1 W, 0603	0603
25	R13	1	2.43k	RG1608P-2431-B-T5	Susumu Co Ltd	RES, 2.43 k, 0.1%, 0.1 W, 0603	0603
26	R14	1	39.0	2-1676481-2	TE Connectivity	RES SMD 39 OHM 0.1% 1/16W 0603	0603
27	U1	1		REF5050AIDGKT	Texas Instruments	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin VSSOP (DGK), Green (RoHS & no Sb/Br)	DGK0008A
28	U2	1		DAC8551IDGKR	Texas Instruments	16-BIT, ULTRA-LOW GLITCH, VOLTAGE OUTPUT DIGITAL-TO-ANALOG CONVERTER, DGK0008A	DGK0008A
29	U3	1		ISO7340CDWR	Texas Instruments	Robust EMC, Low Power, Quad-Channel Digital Isolators, DW0016B	DW0016B
30	U4	1		XTR111AIDRCT	Texas Instruments	Precision Voltage-to-Current Converter/Transmitter, DRC0010A	DRC0010A
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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