TIDA-020023 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-020023	Any	Printed Circuit Board	
C1, C7, C8	3	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
C2, C5	2	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C3	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X7R, 0603	0603
C4, C6, C9	3	1uF	CGA3E1X7R1V105K080AC	TDK	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	45V	CDBU00340	Comchip Technology	Diode, Schottky, 45 V, 0.03 A, SOD-523F	SOD-523F
D2	1	20V	SM4T23CAY	STMicroelectronics	Diode, TVS, Bi, 20 V, 42.8 Vc, AEC-Q101, SMA (non-polarized)	SMA (non-polarized)
D3, D4	2	20V	B120-13-F	Diodes Inc.	Diode, Schottky, 20 V, 1 A, SMA	SMA
D5	1	39V	SMBJ5366B-TP	Micro Commercial Componen	Diode, Zener, 39 V, 5 W, SMB	SMB
J3	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
Q1	1	60V	SQ4850EY	Vishay-Siliconix	MOSFET, N-CH, 60 V, 12 A, SOIC-8	SOIC-8
R1	1	50	FC0603E50R0BTBST1	Vishay Thin Film	RES, 50, 0.1%, 0.125 W, 0603	0603
R2, R4	2	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
R3, R6	2	130	CRCW0603130RFKEA	Vishay-Dale	RES, 130, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP4, TP5	5		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS70950QDBVRQ1	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input LDO with Reverse Current Protection for Automotive, DBV0005A (SOT-23-5)	DBV0005A
U2	1		INA253A1IPWR	Texas Instruments	Low- or High-Side, Bidirectional, Zero-Drift, Current-Shunt Monitor with Integrated Precision Low Inductive Shunt Resistor, PW0020A (TSSOP-20)	PW0020A
U3	1		TLV1805QDBVRQ1	Texas Instruments	Automotive 40-V, microPower, Push-Pull Comparator with Shutdown, DBV0006A (SOT-23-6)	DBV0006A

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