

Variant: 001
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TID #: TIDA-010030

TIDA-010030 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-010030	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16	16	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
3	D1	1	30V	BAT42W-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
4	D2	1	16V	BZT52C16-7-F	Diodes Inc.	Diode, Zener, 16 V, 500 mW, AEC-Q101, SOD-123	SOD-123
5	P1	1				Header, 14-Pin	
6	P2	1				Header, 4-Pin	
7	Q1, Q2	2	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
8	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16	16	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
9	R17	1	200	CRCW0603200RJNEA	Vishay-Dale	RES, 200, 5%, 0.1 W, 0603	0603
10	R18	1	13.3k	CRCW060313K3FKEA	Vishay-Dale	RES, 13.3 k, 1%, 0.1 W, 0603	0603
11	R19, R20	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
12	R21	1	15k	CRCW060315K0JNEA	Vishay-Dale	RES, 15 k, 5%, 0.1 W, 0603	0603
13	R22	1	28.0k	CRCW060328K0FKEA	Vishay-Dale	RES, 28.0 k, 1%, 0.1 W, 0603	0603
14	U1, U2, U3	3		BQ771801DPJT	Texas Instruments	Family 2-5S Overvoltage Protector with Internal Delay Timer, DPJ0008A (WS0N-8)	DPJ0008A