

Bill of Materials

TI DESIGNS

TIDA-00238

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	6	C1-2 C5-8	0.1uF	Capacitor, Ceramic, 10V, X5R, 10%	Murata	GRM155R61A104KA01D	0402
2	1	C3	1uF	Capacitor, Ceramic, 6.3V, X5R, 10%	Murata	GRM155R60J105KE19D	0402
3	1	C4	.47uf	Capacitor, Ceramic, 0.47uF, 6.3V, X5R, 10%	Murata	GRM155R60J474KE19D	0402
4	2	D1-2	AZ23C5V6-7	Diode, Dual, Zener, 5.6 V, 300mW	Diodes	AZ23C5V6-7-F	SOT23
5	1	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	OST	ED555/2DS	0.27 x 0.25 inch
6	9	J2-4 J6 J11-13, J14-15	PEC03SAAN	Header, Male 3-pin, 100mil spacing	Sullins	PEC03SAAN	0.100 inch x 3
7	3	J5 J7 J9	PEC02SAAN	Header, Male 2-pin, 100mil spacing	Sullins	PEC02SAAN	0.100 inch x 2
8	2	J8 J10	22-05-3041	Header, Friction Lock Ass'y, 4-pin Right Angle,	Molex	22-05-3041	0.400 x 0.500
9	1	Q1	UPA2375T1P-E1-A	MOSFET, Dual N-Channel NexFET, 12V 3.2 A	Renesas Electronics A	UPA2375T1P-E1-A	WSCP
10	0	Q2-4	DNP	MOSFET, Dual N-Channel NexFET, 12V 3.2 A	Renesas Electronics A	UPA2375T1P-E1-A	WSCP
11	2	R1 R3	200	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW0402200RJNED	0402
12	1	R12	4.7k	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW04024K70JNED	0402
13	1	R13	2k	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW04022K00JNED	0402
14	2	R14-15	10k	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW040210K0JNED	0402
15	2	R16-17	10	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW040210R0JNED	0402
16	1	R2	5 mOhm	Res, Metal Current sense, 1W, ±1%, 50 ppm	Ohmite	MCS1632R005FER	1632
17	6	R4 R6-10	100	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW0402100RJNED	0402
18	2	R5 R11	1k	Resistor, Chip, 1/16-W, 5%	Vishay Dale	CRCW04021K00JNED	0402
19	2	RT1-2	10K	Thermistor, 10K ohms	Semitec	103AT-2	0.095 X 0.150 inch
20	1	TB1	ED1515	Terminal Block, 3-pin, 6-A, 3.5mm	OST	ED555/3DS	0.41 x 0.25 inch
21	1	TB2	ED555/4DS	Terminal Block, 4-pin, 6-A, 3.5mm	OST	ED555/4DS	0.55 x 0.25 inch
22	7	TP1 TP4-5 TP7-8 TP10-11	5001	Test Point, Black, Thru Hole Color Keyed	Keystone	5001	0.100 x 0.100 inch
23	4	TP2-3 TP6 TP9	5000	Test Point, Red, Thru Hole Color Keyed	Keystone	5000	0.100 x 0.100 inch
24	1	U1	bq27742YZFR-G1	IC, Single Cell Li-Ion Pack Side Fuel Gauge with Integrated Protection	TI	bq27742YZFR-G1	BGA-15
25	1	--		PCB	Any	PWR628	

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