

TIDA-00108 REV 1.0 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
BAT1	1		395021011	Molex	Terminal block, 3.5mm, 11x1, R/A, TH	39.90x7.03x9.33 mm
BAT2	1		395021005	Molex	Header (shrouded), 3.5mm, 5x1, R/A, TH	19.03x7.03x9.33 mm
C1, C2	2	2200pF	12061A222JAT2A	AVX	CAP, CERM, 2200 pF, 100 V, +/- 5%, C0G/NP0, 1206	1206
C3, CL1, CL2, CL3, CL4, CL5, CM1, CM2, CM3, CM4, CM5, CT1, CT2, CT3, CT4, CT5	16	0.1uF	GRM033R61E104KE14J	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0201	0201
CHEM_1	1		SFK-5030	Dexerials Corporation	Fuse, 30 A, 62 VDC, SMD	9.5x2x5mm
CVD_UL1, CVD_UM1, CVD_UT1	3	1uF	C1005X5R1E105K050BC	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0402	0402
D1	1	75V	5.0SMDJ75A	Littelfuse	Diode, TVS, Uni, 75 V, 5000 W, SMC	SMC
D2	1	Red	BR1111C-TR	Stanley Electric Co., LTD	LED, Red, SMD	1.6x0.8mm
JL	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
PACK+, PACK-	2		8199	Keystone	TERMINAL SCREW PC 30AMP, TH	12.9x6.3x7.9 mm
Q1, Q3	2	40 V	CMPT3906 LEAD FREE	Central Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q2	1	60V	CSD18534Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 50 A, SON 5x6mm	SON 5x6mm
R1, R2	2	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, 0402	0402
R3	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, 0402	0402
RL1, RL2, RL3, RL4, RL5, RM1, RM2, RM3, RM4, RM5, RT1, RT2, RT3, RT4, RT5	15	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
RLED	1	4.02k	CRCW12064K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.25 W, 1206	1206
RLVD1, RMVD1, RTVD1	3	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
ROUT1	1	21.5k	RC0603FR-0721K5L	Yageo America	RES, 21.5 k, 1%, 0.1 W, 0603	0603
ROUT2	1	10.2k	RC0603FR-0710K2L	Yageo America	RES, 10.2 k, 1%, 0.1 W, 0603	0603
ROUT3	1	4.64k	RC0603FR-074K64L	Yageo America	RES, 4.64 k, 1%, 0.1 W, 0603	0603
TEST	1		PBC03SGBN	Sullins Connector Solutions	Header, 2.54 mm, 3x1, Gold, R/A, TH	Header, 2.54 mm, 3x1, R/A, TH
TP_GATE1	1		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
UL1, UM1, UT1	3		BQ771800DPJR	Texas Instruments	Overvoltage Protection for 2-Series to 5-Series Cell Li-Ion Batteries with Internal Delay Timer, DPJ0008A	DPJ0008A

IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2017, Texas Instruments Incorporated