Variant: ⁶01 Generated: 12/12/2016 2:54:14 PM TID #: TIDA-01389



TIDA-01389 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-01389	Any	Printed Circuit Board	
2	C1	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
3	C3	1	390uF	EEE-FPV391UAP	Panasonic	CAP, AL, 390 µF, 35 V, +/- 20%, 0.08 ohm, AEC-Q200 Grade 2, SMD	10 x 10
4	C5	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
5	C6	1	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
6	C7, C13, C14	3	0.1uF	GRM155R61H104ME14D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 20%, X5R, 0402	0402
7	C8, C12	2	10uF	C3216X5R1H106K160AB	TDK	CAP, CERM, 10 μF, 50 V, +/- 10%, X5R, 1206	1206
8	C9, C10	2	1uF	GRM155R70J105MA12D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 20%, X7R, 0402	0402
9	C11	1	4.7uF	GRM155R60J475ME47D	MuRata	CAP, CERM, 4.7 µF, 6.3 V, +/- 20%, X5R, 0402	0402
10	C15	1	39uF	PCV1J390MCL2GS	Nichicon	CAP, Aluminum Polymer, 39 μF, 63 V, +/- 20%, 0.029 ohm, AEC-Q200 Grade 2, D8xL12mm SMD	D8xL12mm
11	C16	1	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	0402
12	D1	1	100V	1N4148W-TP	Micro Commercial Components	Diode, Switching, 100 V, 0.15 A, SOD-123	SOD-123
13	J1, J2	2		SSQ-110-01-T-S	Samtec	Receptacle, 2.54mm, 10x1, Tin, TH	Receptacle, 2.54mm, 10x1, TH
14	J4	1		691214310002	Wurth Elektronik	Terminal Block, 2x1, 3.81mm, 24-16 AWG, 10A, 300VAC, TH	2x1 Terminal Block
15	L1	1	10uH	SRP1265A-100M	Bourns	Inductor, Shielded, 10 µH, 10 A, 0.0132 ohm, AEC-Q200 Grade 0, SMD	13.5x6.2x12.5mm
16	Q1, Q2	2	40V	SQJ940EP-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 15 A, AEC-Q101, PowerPAK SO-8 Dual Asymmetric	PowerPAK SO-8 Dual Asymmetric
17	Q5	1	60V	SQ4470EY-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 60 V, 16 A, SOIC-8	SOIC-8
18	Q6	1	80 V	MMBTA06-7-F	Diodes Inc.	Transistor, NPN, 80 V, 0.5 A, SOT-23	SOT-23
19	R1	1	0.04	CSRN2010FK40L0	Stackpole Electronics Inc	RES, 0.04, 1%, 1 W, 2010	2010
	R2, R3, R4, R5, R9	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
21	R6, R8, R14, R15	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
22	R7	1	43k	CRCW040243K0JNED	Vishay-Dale	RES, 43 k, 5%, 0.063 W, 0402	0402
23	U1	1		DRV8703QRHBRQ1	Texas Instruments	Full-Bridge Automotive Gate Driver, RHB0032E	RHB0032E
24	U3	1		TPS7B6933QDBVRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A	DBV0005A
25	U5, U6	2		DRV5013ADQDBZRQ1	Texas Instruments	Automotive Digital-Latch Hall Effect Sensor, DBZ0003A	DBZ0003A
	C17	0	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
27	C18	0	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	0402

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