

Bill of Materials

TI DESIGNS

TIDA-00174

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	3	C1, C23, C24	1uF	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	MuRata	GRM21BR71H105KA12L	0805_HV	
2	1	C2	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	MuRata	GCM188R71H104KA57B	0603L	
3	2	C3, C4	10uF	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	MuRata	GRM31CR71E106KA12L	1206L	
4	1	C5	1uF	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	Kemet	C0603C105K4PACTU	0603L	
5	1	C6	1000pF	CAP, CERM, 1000pF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E102KA01D	0603L	
6	1	C7	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	0603L	
7	1	C8	0.01uF	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C103KA01D	0603L	
8	8	C9, C10, C11, C12, C13, C14, C15	4.7uF	CAP, CERM, 4.7uF, 25V, +/-20%, X7R, 0805	TDK Corporation	CGA4J1X7R1E475M125AC	0805L	
9	4	C17, C18, C19, C20	1000pF	Ceramic, X7R, 1000V, 10%	Vishay-Vitramon	VJ1210Y102KXGAT5Z	1808	
10	2	C21, C22	1200pF	CAP, CERM, 1200pF, 50V, +/-5%, C0G/NP0	MuRata	GRM1885C1H122JA01D	0603	
11	1	C25	10uF	CAP, TA, 10uF, 50V, +/-10%, 0.8 ohm, SMD	Vishay-Sprague	293D106X9050E2TE3	7343-43	
12	1	D1	0.58V	Diode, Schottky, 45V, 0.1A, SOD-523	Diodes Inc.	SDM10U45-7-F	SOD-523	
13	4	D2, D3, D4, D5	100V	Diode, Schottky, 100V, 0.25A, SOD-123F	NXP Semiconductor	BAT46WH.115	SOD-123F	
14	2	D6, D8	11V	Diode, Zener, 11V, 500mW, SOD-123	Diodes Inc.	MMSZ5241B-7-F	SOD-123	
15	2	D7, D9	18V	Diode, Zener, 18V, 500mW, SOD-123	Diodes Inc.	MMSZ5248B-7-F	SOD-123	
16	2	D10, D11	30V	Diode, Schottky, 30V, 3A, SMA	Diodes Inc.	B330A-13-F	SMA	
17	2	J1, J2		Header, TH, Right Angle, 100mil, 10x1	Molex Inc	0022052101	TSW-110-07-G-S	
18	1	R1	4.42k	RES, 4.42k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K42FKEA	0603L	
19	1	R2	20.0k	RES, 20.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060320K0FKEA	0603L	
20	1	R3	143k	RES, 143k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603143KFKEA	0603L	
21	1	R4	49.9k	RES, 49.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349K9FKEA	0603L	
22	1	R5	340k	RES, 340k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603340KFKEA	0603L	
23	1	R6	40.2k	RES, 40.2k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060340K2FKEA	0603L	
24	2	R7, R10	4.02k	RES, 4.02k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08054K02FKEA	0805_HV	
25	2	R8, R9	2.00k	RES, 2.00k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052K00FKEA	0805_HV	
26	2	R11, R14	1.33k	RES, 1.33k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K33FKEA	0603	
27	2	R12, R15	20.0	RES, 20.0 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080520R0FKEA	0805_HV	
28	2	R13, R16	10.0	RES, 10.0 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080510R0FKEA	0805_HV	
29	1	T1		Transformer	Würth Midcom Electronics	750314624		
30	1	U1		7.5-100V Wide Vin, 600mA Constant On-Time	Texas Instruments	LM5017MR	MFA08A_N	
31	2	U2, U3		4.0 Amp Output Current IGBT Gate Drive O	Avago Technologies US Inc.	ACPL-W343	ACPL-F34x/W34x	

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