

TIDA-01606_Gate Driver REV E5 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC8101	1		TIDA-01606_Gate Driver	Any	Printed Circuit Board	
2	C101, C104, C109, C112, C201, C204	6	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
3	C102, C103, C110, C111, C203	5	2.2uF	C3225X7R1H225K250AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1210	1210
4	C105, C113, C302, C315	4	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, 1206	1206
5	C106, C114, C206, C312, C326	5	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	402
6	C107, C108, C115, C116, C207, C208	6	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	402
7	C202	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	603
8	C205	1	15uF	C3216X7S1A156M160AC	TDK	CAP, CERM, 15 uF, 10 V, +/- 20%, X7S, 1206	1206
9	C301, C309, C314, C323	4	0.1uF	0603ZC104KAT2A	AVX	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	603
10	C303, C305, C316, C318	4	0.1uF	GRM319R71H104KA01D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 1206	1206
11	C304, C317	2	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
12	C306, C319	2	10uF	GRM31CR61H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206	1206
13	C307, C308, C320, C322, C410, C411	6	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	402
14	C310, C324	2			Murata	330pF ±10% 100V Ceramic Capacitor X7R 0402 (1005 Metric)	402
15	C311, C325	2	2200pF	8.85012E+11	Wurth Elektronik	CAP, CERM, 2200 pF, 10 V, +/- 10%, X7R, 0402	402
16	C313, C321	2	100pF	GRM2165C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0805	805
17	C401, C402	2	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	402
18	C403	1	0.1uF	8.85012E+11	Wurth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
19	C404, C405, C406, C408, C412, C414	6	0.1uF	GRM155R61H104ME14D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X5R, 0402	402
20	C407, C409, C413, C415	4	10uF	C1608X5R1E106M080AC	TDK	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	603
21	D101, D102, D201, D402, D403	5	Green	150060GS75000	Wurth Elektronik	LED, Green, SMD	LED_0603
22	D301, D302	2		US1Q-TQ	MCC	Diode Standard 1200 V 1A Surface Mount DO-214AC (SMA)	SMA
23	D401	1	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603
24	FLT401, PWM401, PWM402, PWM403, PWM404, RDY401, RST401	7		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
25	J401	1		61301621021	Wurth Elektronik	Header, 2.54mm, 8x2, Gold, R/A, TH	Header, 2.54mm, 8x2, R/A, TH
26	J402, J403, J404, J405	4		61300411021	Wurth Elektronik	Header, 2.54 mm, 4x1, Gold, R/A, TH	Header, 2.54 mm, 4x1, R/A, TH
27	Q401	1	65 V	BC856A-7-F	Diodes Inc.	Transistor, PNP, 65 V, 0.01 A, SOT-23	SOT-23
28	R101, R110, R201	3	65.7k	RT0805BRD0765K7L	Yageo America	RES, 65.7 k, 0.1%, 0.125 W, 0805	805
29	R102, R111, R202	3	2.21k	CRCW0402K21FKED	Vishay-Dale	RES, 2.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
30	R103, R112, R203	3	470	ERJ-2RKF4700X	Panasonic	RES, 470, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402
31	R104, R113, R204	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
32	R105, R108, R114, R117, R205, R208, R303, R304, R305, R319, R320, R321	12	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
33	R106, R115, R206	3	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
34	R107, R116, R207	3	1.21k	CRCW04021K21FKED	Vishay-Dale	RES, 1.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
35	R109, R118, R209	3	49.9k	MCR01MZPF4992	Rohm	RES, 49.9 k, 1%, 0.063 W, 0402	402
36	R301, R310, R315, R316, R317, R326, R415, R417	8	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
37	R302, R318	2	15.0k	RC1206FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.25 W, 1206	1206
38	R306, R322, R413, R414	4	10	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
39	R307, R308, R323, R324	4	2	CRCW12062R00JNEA	Vishay-Dale	RES, 2.0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
40	R309, R325	2	18.0k	ERJ2RKF1802X	Panasonic	RES, 18.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402
41	R311, R327	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
42	R312, R328	2	2.00k	CRCW040220K0FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
43	R313, R329	2	0	CRCW04022000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
44	R314, R330	2	6.19k	CRCW04026K19FKED	Vishay-Dale	RES, 6.19 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
45	R401	1	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
46	R402	1	620	RC0603FR-07620RL	Yageo	RES, 620, 1%, 0.1 W, 0603	603
47	R403	1	2.18k	RT0603BRD072K18L	Yageo America	RES, 2.18 k, 0.1%, 0.1 W, 0603	603
48	R404, R408, R409, R410, R411, R412	6	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
49	R405	1	120	CRCW0402120RJNED	Vishay-Dale	RES, 120, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
50	R406	1	10	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	603
51	R407	1	0	ERJ-3GEYR000V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
52	R416, R418, R419, R420	4	3.3	RC1206FR-073R3L	Yageo America	RES, 3.30, 1%, 0.25 W, 1206	1206
53	R421, R422	2	0	PMR03EZPJ000	Rohm	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	603
54	TP301, TP303, TP401	3		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
55	U101, U102, U201	3		UCC14240DWNQ1	Texas Instruments	2W, 24V-Vin, 25V-Vout, High-Efficiency, >2.5 kVrms Isolated DC-DC Converter	SOIC36
56	U301, U302	2		UCC217100DWWQ1	Texas Instruments	Single Channel Isolated Gate Driver for SiCIGBT with Advanced Protection and High-CMTI, DW0016B (SOIC-16)	DW0016B
57	U401	1		SN74LVC126APWR	Texas Instruments	Quaduple Bus Buffer Gate with 3-State Outputs, PW0014A (TSSOP-14)	PW0014A
58	U402, U403	2		UC5320SCDWV	Texas Instruments	5-kVrms Single-Channel Isolated Gate Drivers, DWV0008A (SOIC-8)	DWV0008A
59	J301, J302	0		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD