

Bill of Materials

TI DESIGNS TIDA-00199
Isolated IGBT Gate-Drive Fly-buck™ Power Supply with 8 Outputs

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	IPC81	Printed Circuit Board	Any	TIDA-00199		Fitted
5	C1, C10, C16, C21, C26	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	MuRata	GRM32ER71H106KA12L	1210	Fitted
9	C2, C9, C13, C15, C18, C20, C23,	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H104K	0603	Fitted
2	C3, C6	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H103K	0603	Fitted
12	C4, C7, C8, C11, C12, C14, C17,	CAP, CERM, 22uF, 25V, +/-10%, X7R, 1210	MuRata	GRM32ER71E226KE15L	1210	Fitted
1	C5	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	TDK	C1608X7R1E105K080AB	0603	Fitted
1	Cac	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H102K	0603	Fitted
1	Cr	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	0603	Fitted
4	D1, D3, D5, D7	DIODE ZENER 15V 550MW SOD323F	NXP Semiconductors	BZX84J-B15,115	SOD-323F	Fitted
4	D2, D4, D6, D8	DIODE SBR 200V 1A POWERDI123	Diodes Incorporated	SBR1U200P1-7	powerDI123	Fitted
1	D9	Diode, Schottky, 45V, 0.1A, SOD-523	Diodes Inc.	SDM10U45-7-F	SOD-523	Fitted
2	GND2, Vin	Terminal, Turret, TH, Double	Keystone	1502-2	Keystone1502-2	Fitted
4	JB, JUT, JVT, JWT	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology	ED555/3DS	TERM_BLK_ED555-3DS	Fitted
1	R1	RES, 8.45k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06038K45FKEA	0603	Fitted
1	R2	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	0603	Fitted
1	R3	RES 453K OHM 1/10W 1% 0603 SMD	Panasonic Electronic	ERJ-3EKF4533V	0603	Fitted
4	R4, R5, R6, R7	RES, 511, 1%, 0.125 W, 0805	Vishay-Dale	CRCW0805511RFKEA	0805 HV	Fitted
2	Rfbb, Rr	RES, 20.5 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060320K5FKEA	0603	Fitted
1	Rfbt	RES, 86.6 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060386K6FKEA	0603	Fitted
1	SW	Test Point, Miniature, White, TH	Keystone	5002	Keystone5002	Fitted
1	T1	Transformer, Thru-Hole, 36.5uH, 1:2.33:2.33:2.33:2.33	Würth Electronics Midcom	750315038	WURTH 750315038	Fitted
1	U1	Wide Input 65V, 1.5A Synchronous Step-Down DC-DC	Texas Instruments	LM5160DNT	DNT0012B	Fitted
1	Vpri	Test Point, TH, Miniature, Red	Keystone	5000	Keystone5000	Fitted
0	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial10-20	Not Fitted

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