

Bill Of Materials

Item #	Quantity	Part Ref	Value	Description	Mfg	Mfg Part Number
1	1	BR1	2KBP06M	600 V, 2,00 A, Standard Recovery Bridge, KBPM	Fairchild Semiconductor1	2KBP06M
2	1	C1	330 nF	330 nF, 275 VAC, Ceramic, X Class	Panasonic	ECQ-U2A334ML
3	1	C2	220 µF	220 µF, 400 V, High Voltage Al Electrolytic, 904 mΩ, (45 mm x 18 mm)	United Chemi-Con	EPAG400VB221M18X45LL
4	1	C3	10 nF	10 nF, 1 kV, High Voltage Ceramic Disc	Panasonic	ECK-D3A103KBP
5	1	C4	0,1 µF	0,1 µF, 50 V, Ceramic, X7R	Murata	RPER71H104K2P1A03B
6	1	C5	47 µF	47 µF, 10 V, Electrolytic, Gen Purpose, 1040 mΩ, (11 mm x 5 mm)	United Chemi-Con	KME10VB22RM5X11LL
7	1	C6	2,2 nF	2,2 nF, 250 VAC, Ceramic, Y Class	Vishay	440LD22-R
8	3	C7, C9, C10	30 pF	30 pF, 100 V, Ceramic, C0G	Epcos	B37979N1270J000
9	1	C8	22 pF	22 pF, 1 kV, High Voltage Ceramic Disc	Panasonic	ECC-D3A220JGE
10	1	C11	1 µF	1 µF, 50 V, Electrolytic, Gen Purpose, 1080 mΩ, (11 mm x 5 mm)	United Chemi-Con	KME50VB1R0M5X11LL
11	2	C12, C16	820 µF	820 µF, 25 V, Electrolytic, Super Low ESR, 22 mΩ, (25 mm x 10 mm)	United Chemi-Con	KZE25VB821MJ25LL
12	3	C13, C17, C19	100 µF	100 µF, 25 V, Electrolytic, Low ESR, 250 mΩ, (11,5 mm x 6,3 mm)	United Chemi-Con	LXZ25VB101MF11LL
13	1	C14	220 µF	220 µF, 50 V, Electrolytic, Super Low ESR, 42 mΩ, (16 mm x 10 mm)	United Chemi-Con	KZE50VB221MJ16LL
14	1	C15	100 µF	100 µF, 50 V, Electrolytic, Low ESR, 220 mΩ, (12 mm x 8 mm)	United Chemi-Con	LXZ50VB101MH15LL
15	1	C18	1500 µF	1500 µF, 25 V, Electrolytic, Super Low ESR, 18 mΩ, (25 mm x 12,5 mm)	United Chemi-Con	KZE25VB152MK25LL
16	1	C20	68 nF	68 nF, 50 V, Ceramic, X7R	Murata	RPER71H683K2P1A03B
17	1	D1	FR257	1000 V, 2,50 A, Fast Recovery, 500 ns, R-3	Rectron	FR257
18	1	D2	1N4148	75 V, 0,30 A, Fast Recovery, 8 ns, DO-35	Vishay	1N4148
19	4	D3, D4, D5, D6	BYW29-200	200 V, 8,00 A, Ultrafast Recovery, 25 ns, TO-220AC	Philips	BYW29-200
20	1	F1	1,6 A	265 VAC, 1,6 A, Radial TR5, Time Lag Fuse	Littelfuse / Wickmann(R)	37411600410
21	1	HS1	533402B02552G	5 °C/W TO-220. Heatsink for use with Device U1.	Aavid	533402B02552G
22	1	HS2		34,9 mm x 20,0 mm. Aluminum Alloy (3003 OR 5052), 1.6 mm thickness. Heatsink for use with Diode D3.	Custom	
23	1	HS3		16,8 mm x 20,0 mm. Aluminum Alloy (3003 OR 5052), 1.6 mm thickness. Heatsink for use with Diode D4.	Custom	
24	1	HS4		34,9 mm x 20,0 mm. Aluminum Alloy (3003 OR 5052), 1.6 mm thickness. Heatsink for use with Diode D5.	Custom	
25	1	HS5		50,1 mm x 20,0 mm. Aluminum Alloy (3003 OR 5052), 1.6 mm thickness. Heatsink for use with Diode D6.	Custom	
26	1	L1	6 mH	6 mH, 1,6 A	Panasonic	ELF18N016
27	3	L2, L4, L5	3,3 µH	3,3 µH, 5,5 A	JW Miller	RL622-3R3K-RC
28	1	L3	3,3 µH	3,3 µH, 2,66 A	Toko	822LY-3R3M
29	2	R1, R2	1,1 MΩ	1,1 MΩ, 5 %, 0,25 W, Carbon Film	Generic	
30	3	R3, R4, R5	27 kΩ	27 kΩ, 5 %, 2 W, Metal Oxide	Generic	
31	2	R6, R7	2,4 MΩ	2,4 MΩ, 5 %, 0,25 W, Carbon Film	Generic	
32	1	R8	6,8 Ω	6,8 Ω, 5 %, 0,125 W, Carbon Film	Generic	
33	3	R9, R11, R12	360 Ω	360 Ω, 5 %, 0,25 W, Carbon Film	Generic	
34	1	R10	470 Ω	470 Ω, 5 %, 0,25 W, Carbon Film	Generic	
35	1	R13	590 Ω	590 Ω, 1 %, 0,125 W, Metal Film	Generic	

36	1	R14	1 k Ω	1 k Ω , 5 %, 0,125 W, Carbon Film	Generic	
37	1	R15	61,9 k Ω	61,9 k Ω , 1 %, 0,125 W, Metal Film	Generic	
38	1	R16	10,7 k Ω	10,7 k Ω , 1 %, 0,125 W, Metal Film	Generic	
39	1	RT1	10 Ω	NTC Thermistor 10 Ω , 1,7 A	Thermometrics	CL-120
40	1	T1	ETD34/17/1 1	NC-2H (Nicera) or Equivalent Core Material See Transformer Construction's Materials List for complete information	Epcos	B66361-G-X127
41	1	U1	TOP249YN	TOPSwitch-GX, TOP249YN, TO-220	Power Integrations	TOP249YN
42	1	U2	LTV817A	Optocoupler LTV817A, 35 V, CTR 80 - 160 %, 4-DIP	Liteon	LTV817A
43	1	U3	TL431	2,495 V, Shunt Regulator IC, 2 %, TO-92	ON Semiconductor	TL431
44	1	VR1	P6KE200A	200 V, 5 W, 5 %, DO-204AC, TVS	Vishay	P6KE200A