

Bill of Materials: tl494_forward_converter.fzz

/home/ericu/Documents/tl494_forward_converter.fzz

Tuesday, March 13 2018, 18:24:16

Assembly List

Label	Part Type	Properties
C1	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C2	Electrolytic Capacitor	package 100 mil [THT, electrolytic]; voltage 6.3V; capacitance 1μF
C3	Ceramic Capacitor	package 200 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C4	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C5	Electrolytic Capacitor	package 100 mil [THT, electrolytic]; voltage 6.3V; capacitance 1μF
C6	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C7	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C9	Ceramic Capacitor	package 200 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
C10	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
D1	Diode	variant pth; package diode-1n4001
D2	Diode	variant 1n4148; package diode-1n4148
IC1	Voltage Regulator	variant -to-220; package to-220-alt; voltage 5V; chip 78005
J1	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm
J2	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # primary winding
J3	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # reverse winding
J4	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # secondary winding
J5	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm
LED1	Red (633nm) LED	color Red (633nm); package 5 mm [THT]; leg yes

Label	Part Type	Properties
Q1	Basic FET N-Channel	type n-channel; package DPak [SMD]
Q5	NPN-Transistor	type NPN (EBC); package TO92 [THT]
Q6	PNP-Transistor	type PNP (EBC); package TO92 [THT]
Q7	PNP-Transistor	type PNP (EBC); package TO92 [THT]
R1	3.3Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 3.3Ω
R2	2.2kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 2.2kΩ
R3	2.2kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 2.2kΩ
R4	0.1Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 0.1Ω
R5	1kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 1kΩ
R6	47kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 47kΩ
R7	50kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 50kΩ
R8	100kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 100kΩ
R9	100Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 100Ω
R10	10kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 10kΩ
R11	10kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 10kΩ
R13	10kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 10kΩ
R14	1kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 1kΩ
R15	2.2kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 2.2kΩ
R16	10kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 10kΩ
U1	IC	pin spacing 300mil; package DIP (Dual Inline) [THT]; pins 16; chip label IC; hole size 1.0mm,0.508mm; true
U2	POT	variant 100k_3362u; package 3362u
U3	POT	variant 100k_3362u; package 3362u
U4	Sharp PC817	package THT; part PC817
U5	POT	variant 100k_3362u; package 3362u

Shopping List

Amount	Part Type	Properties
5	Ceramic Capacitor	package 100 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
2	Electrolytic Capacitor	package 100 mil [THT, electrolytic]; voltage 6.3V; capacitance 1μF
2	Ceramic Capacitor	package 200 mil [THT, multilayer]; voltage 6.3V; capacitance 100nF
1	Diode	variant pth; package diode-1n4001
1	Diode	variant 1n4148; package diode-1n4148
1	Voltage Regulator	variant -to-220; package to-220-alt; voltage 5V; chip 78005
2	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm
1	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # primary winding
1	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # reverse winding
1	Generic female header - 2 pins	pin spacing 0.1in (2.54mm); form ♀ (female); row single; package THT; pins 2; hole size 1.0mm,0.508mm; part # secondary winding
1	Red (633nm) LED	color Red (633nm); package 5 mm [THT]; leg yes
1	Basic FET N-Channel	type n-channel; package DPak [SMD]
1	NPN-Transistor	type NPN (EBC); package TO92 [THT]
2	PNP-Transistor	type PNP (EBC); package TO92 [THT]
1	3.3Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 3.3Ω
3	2.2kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 2.2kΩ
1	0.1Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 0.1Ω
2	1kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 1kΩ
1	47kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 47kΩ
1	50kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 50kΩ
1	100kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 100kΩ
1	100Ω Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 100Ω
4	10kΩ Resistor	pin spacing 400 mil; package THT; tolerance ±5%; bands 4; resistance 10kΩ

Amount	Part Type	Properties
1	IC	pin spacing 300mil; package DIP (Dual Inline) [THT]; pins 16; chip label IC; hole size 1.0mm,0.508mm; true
3	POT	variant 100k_3362u; package 3362u
1	Sharp PC817	package THT; part PC817

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