

Bill Of Materials

Component	Value	Rating	Quantity	Notes
Zener diode	5.1 V	1 W	1	Reference voltage
Resistor	390R, 200R, 2.2kR, 330R, 1R	1-1.2W	2 for 390, 1 for the rest	-
Capacitor	100uF, 4.7uF	50 V	1 for 100uF, 2 for 4.7uF	Output filter
Potentiometer	2k (3296W)	0.5W	1	-
Screw Terminal Block	2P (5mm)	300V	2	Connector

Transistors

Model	Type	Vceo(max)	Ic(max)	hFE (Gain)	P_diss (Max)	Package
TIP122	NPN Darlington	100V	5A	1000–5000	65 W	TO-220
2N3904	NPN BJT	40 V	200 mA	100-300	625mW	TO-92
2N2222	NPN BJT	40 V	600 mA	30-300	1W	TO-92