

[Parts list power supply PCB]

Resistors – all resistors are 1/4W 1% metal film unless specified otherwise

R1-R6/R9-R14 (12) = 2.2R

R7/R8/R15/R16 (4) = 100R

R17-R21 (5) = 10K

Capacitors

C1-C8 (8) = 10nF – film capacitor, polypropylene or polyester - 5mm pitch

C9-C14 (6) = 1000uF/63V – 16/20mm diameter - 8mm pitch

C15/C16 (2) = 100uF/50V - 8/10mm diameter - 5mm pitch

C17-C20 (4) = 22000-33000uF ALC10 BHC – use type specified – 4 pole pitch

Diodes

D1-D8 (8) = MBR1100 – schottky diode 1A, 100V

D9/D10/D11/D12 (4) = BZX79C15V - 15V zener – 500mW

D13/D14/D17/D18/D19/D20 (6) = 1N4148 – 100mA generic silicon diode

D15/D16 (2) = BZX79C4V7 - 4V7 zener – 500mW

B1/B2 (2) = bridge rectifier 35A/200V

Transistors

T1/T2/T5/T8/T9/T11 (6) = BC557C

T3/T4/T6/T7/T10 (5) = BC547C

U1/U3/U4/U6 (4) = J505 - 1mA CRD

U2/U5 (2) = J511/J510 - 4.7/3.6mA CRD – either type will do

Connectors

Faston printconnector 6.35-mm 11x

4-pole Molex 2.54-mm pitch 1x - standard 0.1" pitch header with plastic shroud

Misc.

Fuseholder PCB 22.5-mm 2x

Fuse 22.5-mm 6.3A slow 2x

Relais RT424024 2x – relais DPDT 8A 24V

Transformer 2x18V 300 or 500VA

Transformer 2x25V 15 or 30VA

Heatsink minimum of 0.2K/W