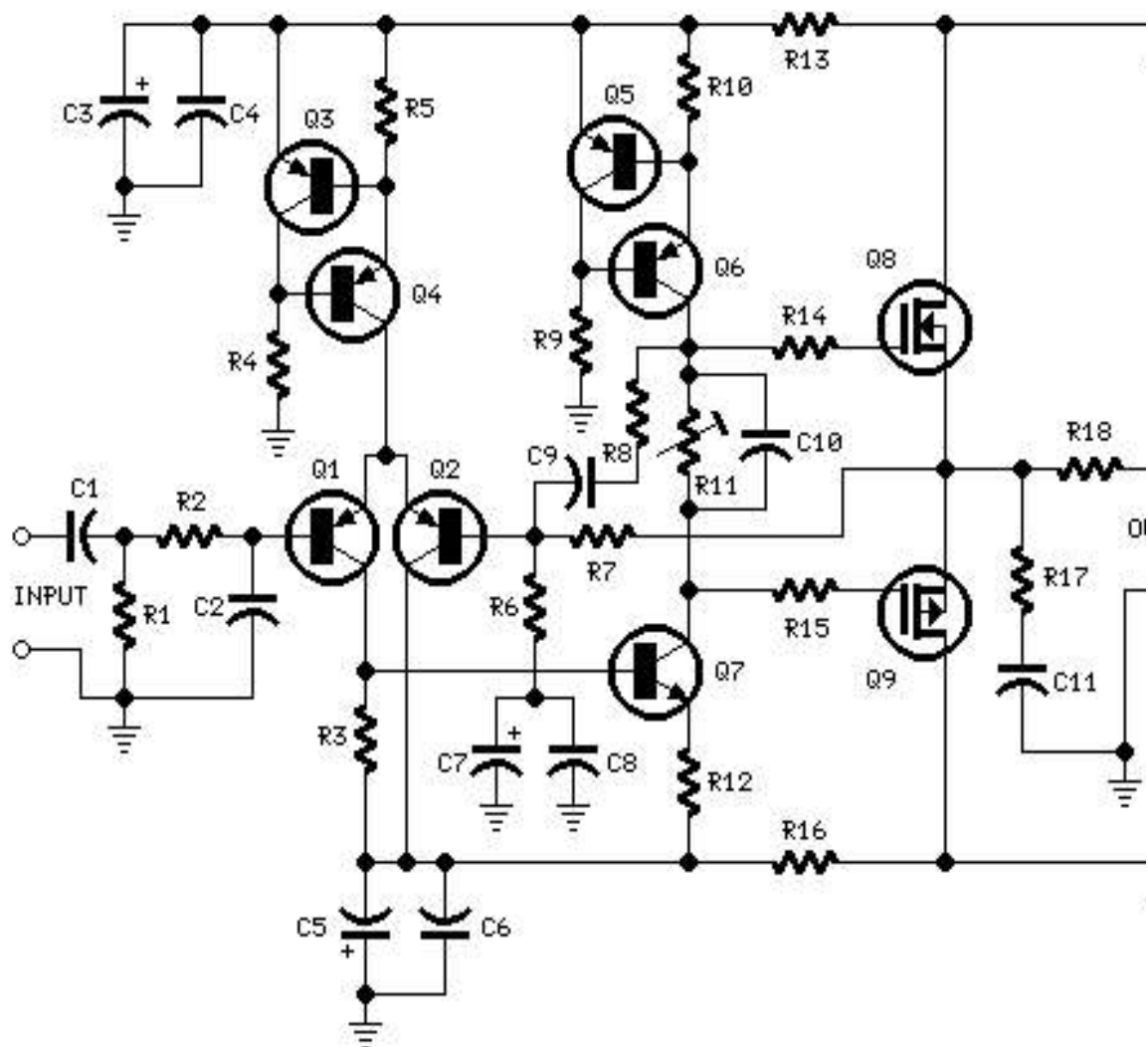


25 Watt MosFet Audio Amplifier

High Quality simple unit
No need for a preamplifier

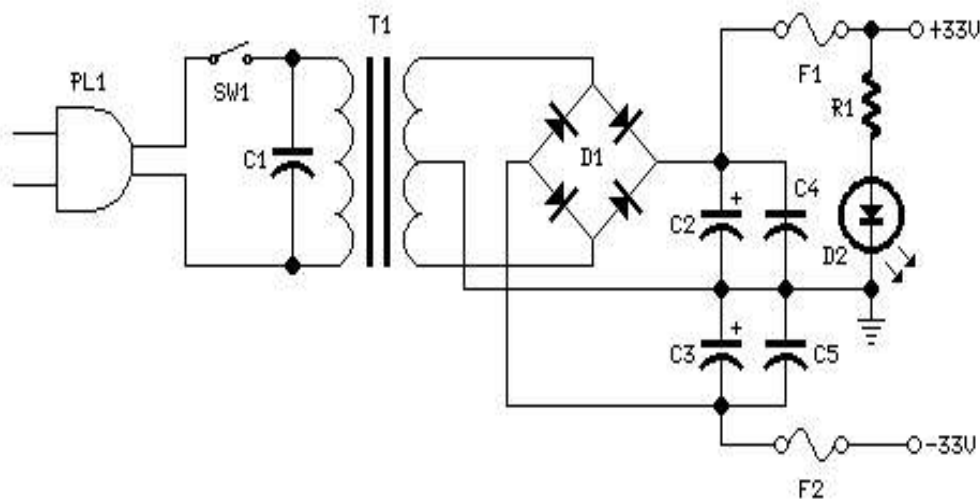
Circuit diagram:



Parts:

R1, R4	47K	1/4W Resistors
R2	4K7	1/4W Resistor
R3	1K5	1/4W Resistor
R5	390R	1/4W Resistor
R6	470R	1/4W Resistor
R7	33K	1/4W Resistor
R8	150K	1/4W Resistor
R9	15K	1/4W Resistor
R10	27R	1/4W Resistor
R11	500R	1/2W Trimmer Cermet
R12, R13, R16	10R	1/4W Resistors
R14, R15	220R	1/4W Resistors
R17	8R2	2W Resistor
R18	R22	4W Resistor (wirewound)
C1	470nF	63V Polyester Capacitor
C2	330pF	63V Polystyrene Capacitor
C3, C5	470µF	63V Electrolytic Capacitors
C4, C6, C8, C11	100nF	63V Polyester Capacitors
C7	100µF	25V Electrolytic Capacitor
C9	10pF	63V Polystyrene Capacitor
C10	1µF	63V Polyester Capacitor
Q1-Q5	BC560C	45V 100mA Low noise High gain
PNP Transistors		
Q6	BD140	80V 1.5A PNP Transistor
Q7	BD139	80V 1.5A NPN Transistor
Q8	IRF532	100V 12A N-Channel Hexfet
Transistor		
Q9	IRF9532	100V 10A P-Channel Hexfet
Transistor		

Power supply circuit diagram:



Parts:

R1 3K3 1/2W Resistor

C1 10nF 1000V Polyester Capacitor

C2, C3 4700 μ F 50V Electrolytic Capacitors

C4, C5 100nF 63V Polyester Capacitors

D1 200V 8A Diode bridge

D2 5mm. Red LED

F1, F2 3.15A Fuses with sockets

T1 220V Primary, 25 + 25V Secondary 120VA
Mains transformer

PL1 Male Mains plug

SW1 SPST Mains switch

Notes:

- Σ Can be directly connected to CD players, tuners and tape recorders. Simply add a 10K Log potentiometer (dual gang for stereo) and a switch to cope with the various sources you need.
 - Σ Q6 & Q7 must have a small U-shaped heatsink.
 - Σ Q8 & Q9 must be mounted on heatsink.
 - Σ Adjust R11 to set quiescent current at 100mA (best measured with an Avo-meter in series with Q8 Drain) with no input signal.
 - Σ A correct grounding is very important to eliminate hum and ground loops. Connect in the same point the ground sides of R1, R4, R9, C3 to C8. Connect C11 at output ground. Then connect separately the input and output grounds at power supply ground.
-

Technical data:

Output power: well in excess of 25Watt RMS with 8 Ohm (1KHz sinewave)

Sensitivity: 200mV input for 25W output

Frequency response: 30Hz to 20KHz -1dB

Total harmonic distortion : 1KHz: 0.1W 0.014% 1W 0.006% 10W 0.006% 20W 0.007% 25W 0.01%

Total harmonic distortion : 10KHz: 0.1W 0.024% 1W 0.016% 10W 0.02% 20W 0.045% 25W 0.07%
