



1

2

3

4

Modifications		Date	Name	Description	DIY AUDIO	Page no. 1
Date	Name			Very Simple Quasi Complimentary MOSFET Amplifier		of
						Pages 2
				Schematic no.	REV 2	AUG 22,2016
				DESIGN: RANCHU - AKSA		
				DRAWN BY: DACZ		

1

At 42V rails, the dissipation on the Q3 KSA1381 (the buffer) is 395mW and Q5 KSA1381 (the inverter) is 243mW at idle and probably less even in full output. This is thermally fine for a TO126 sitting alone on a pcb with good ventilation but no heatsinks. You could use a small flag heatsink (32C/watt) for Q3, but not for Q5. This would have been identified if there had been a problem; the entire active chain was considered when during LTSpice analysis was done and then by Ranchu when he used his Quasi in a sub-tropical city, Brisbane, where any thermal issues would be been clearly evident months back. So, be assured, this is a highly evolved, refined, tested design and both Q3 and Q5 may be left free standing, with no heatsinking.

2

I commend this amp to you. The sound is very good, almost tubey; the harmonic profile is very musical.

3

At any rail less than 42V the thermal issues relax even more. You can be sure!

Cheers,

Hugh

4

Modifications		Date	Name	Description	Page no.
Date	Name			DIY AUDIO Very Simple Quasi Complimentary MOSFET Amplifier	2 of
					Pages 2
		DESIGN: RANCHU - AKSA DRAWN BY: DACZ		Schematic no. REV 2	SEPT 21,2016