FET Common Drain / Source Follower

- details of the common drain or source follower circuit that can be designed using a field effect transistor, FET.

IN THIS SECTION

Common drain or source follower is an excellent FET circuit.

The like the transistor emitter follower, the source follower configuration itself provides a high level of buffering and a high input impedance. The actual input resistance of the FET itself is very high as it is a field effect device. This means that the source follower circuit is able to provide excellent performance as a buffer.

The voltage gain is unity, although current gain is high. The input and output signals are in phase.

COMMON DRAIN, SOURCE FOLLOWER FET AMPLIFIER CHARACTERISTICS	
PARAMETER	AMPLIFIER CHARACTERISTICS

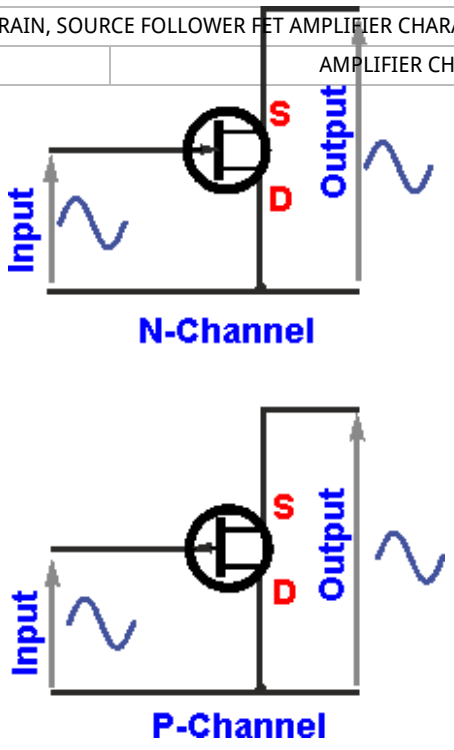

Diagram of the common drain / source follower FET buffer

Source follower amplifier characteristics summary

The table below gives a summary of the major characteristics of the source follower amplifier.

COMMON DRAIN, SOURCE FOLLOWER FET AMPLIFIER CHARACTERISTICS	
PARAMETER	AMPLIFIER CHARACTERISTICS
Voltage gain	Zero
Current gain	High
Power gain	Medium
Input / output phase relationship	0°
Input resistance	Very High
Output resistance	Low

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